

Equip Yourself With

The Latest in Service Tools

Nut Turning Equipment—

Small Hand Tool Equipment—

Special Tools for Popular Cars—

Special Airplane Tools and

Selected Shop Equipment Tools

Snap-On and Blue-Point tools are built by highly skilled mechanics. Their design and quality is recognized as the standard by which all other tools of their kind are judged.

Compare Snap-On—Blue-Point tools alongside any other make which you consider to be of high quality and let the actual working performance determine their comparative values. This is the only basis upon which we can prove their superior quality and is the basis upon which we solicit your patronage.

The electric furnace high carbon alloy tool steels used in all Snap-On—Blue-Point tools are the finest modern science can produce. Our electric furnace hardening and tempering equipment is considered to be the most complete and modern in the small tools industry.

ALL PRICES ARE NET TO THE TRADE

(Prices subject to change without notice)

OUR GUARANTEE

Snap-On—Blue-Point tools are built to meet the particular and exacting working requirements of professional mechanics. The product of an organization that is committed to the highest quality it is possible to produce.

Every tool is rigidly inspected before it leaves the factory; however, any tool which may prove defective in materials or workmanship will be cheerfully replaced without charge. For obvious reasons we can not replace tools that have been abused or misused, such as grinding, filing or deliberately broken. Neither can we make free replacement on tools that have been worn out from actual use. Our guarantee always has been and always will continue to be faithfully lived-up-to. Adjustments are made promptly on the basis of our fair dealing with you and your fair dealing with us.

Manufactured and Distributed Exclusively by

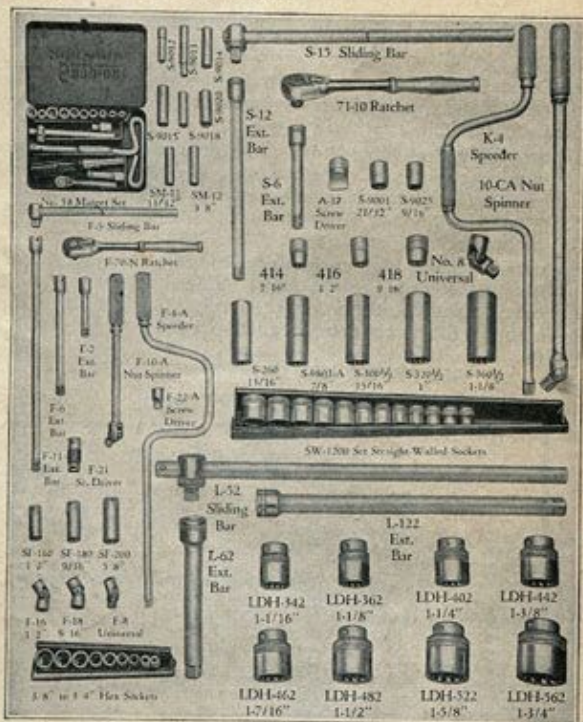
SNAP-ON TOOLS CORPORATION
KENOSHA, WISCONSIN

**Thirty-seven Branches—Over 540 Salesmen. See List on
Inside Back Cover.**

No. 487 Super-Service Snap-On Tool Set

TOP NOTCH Mechanics everywhere have long expressed the wish for a complete tool outfit that would contain all the standard tools required in everyday work. Now is your chance to provide yourself with that set.

Never before has such a wide range and selection of matched wrench units and mechanic's hand tools been made available in one complete set. There are no "White Elephants" in the outfit—every tool is required in normal service and repair work and every important tool is included.



Set Includes 89 Socket Wrench Units

THE full range of the socket wrench equipment extends from $\frac{3}{16}$ " to $1\frac{3}{4}$ " inclusive and through four sizes of handle equipment—Midget $\frac{9}{16}$ ", Ferret $\frac{3}{4}$ ", Master $\frac{1}{2}$ ", and Heavy Duty $\frac{3}{4}$ " Square Drive handles. Socket sizes include—Midget; 8 Hex sockets $\frac{3}{16}$ " to $\frac{1}{8}$ ", 2 Square sockets, $\frac{1}{4}$ " and $\frac{3}{8}$ ", and 8 Extra Deep Hex sockets, $\frac{3}{16}$ " to $\frac{1}{8}$ "; Ferret; 9 Hex sockets $\frac{3}{8}$ " to $\frac{1}{2}$ ", 2 Hex Flexockets $\frac{1}{2}$ " and $\frac{9}{16}$ ", and 3 Extra Deep Hex sockets $\frac{3}{8}$ ", $\frac{9}{16}$ ", and $\frac{1}{2}$ "; Master; SW-1200 Set of 12 Straight Walled Hex sockets $\frac{7}{16}$ " to $1\frac{1}{2}$ ", 5 Extra Deep Hex sockets $\frac{1}{2}$ " to $1\frac{1}{8}$ ", 3 Square sockets $\frac{3}{8}$ ", $\frac{1}{2}$ ", and $\frac{5}{8}$ "; Heavy Duty; 8 Hex sockets, $1\frac{1}{8}$ " to $1\frac{3}{4}$ ". Handle Equipment includes Ratchets, Speeders, Nut Spinners, Combination Sliding Tees and Offsets, Universal Joints, Extension Bars, etc. Every required socket wrench combination is at your service when you need it... Keep 'em rolling with Snap-ons.

The Last Word in Completeness and Selection

No. 487 Super Service Tool Set Set Includes 65 Mechanics Hand Tools



IN ADDITION to the 89 socket wrench units shown opposite, the new Snap-on Super Service Set contains these 65 Blue Point wrenches and hand tools. Ignition Wrenches $\frac{1}{2}$ " to $\frac{3}{8}$ ", Open End Wrenches $\frac{3}{8}$ " to 1", Tappet Wrenches $\frac{1}{2}$ ", $\frac{3}{8}$ ", $\frac{1}{4}$ ", and $\frac{11}{16}$ ", Boxsocket Wrenches $\frac{3}{8}$ " to 1", Chisels and Punches, Screw Extractors, Screw Drivers, Pliers, Hammers, Files, and miscellaneous necessary hand tools. Full descriptions of all these units will be found elsewhere in catalogue.

We have selected the tools in this set to cover all types of service and repair jobs from ignition to heavy duty rear end work. All the standard tools needed are included.

No. 487 Super Service Set.
Tools only \$135.65
No. 487-B Super Service Set. Complete in K-5 Tool Chest \$155.40

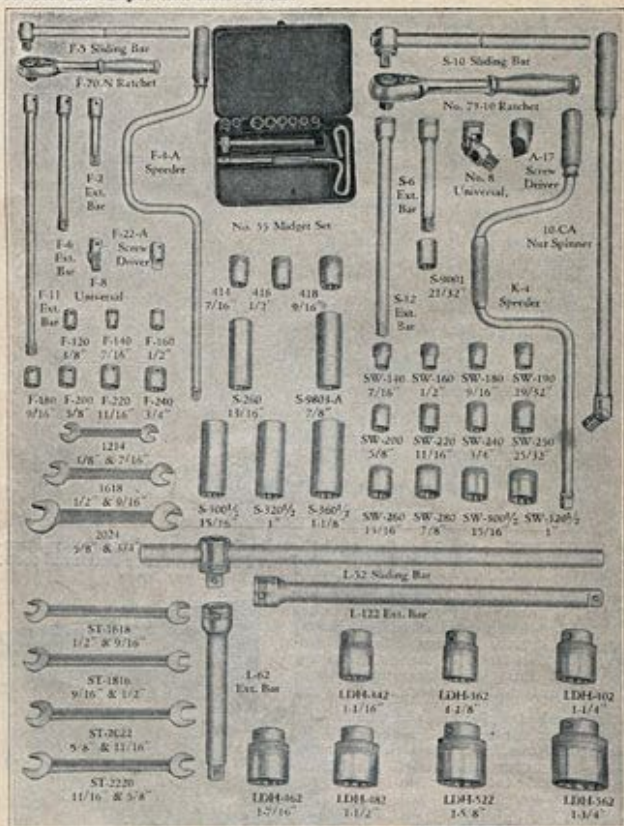
The set comes packed in the famous Snap-on K-5 Tool Chest. (See illustration and description on page 87.) There is plenty of room to accommodate other tools, and the entire outfit is locked with one padlock.



A Complete Selection of Standard Hand Tools

Snap-on "Progressive" No. 497 Nut-Turning Set

PROGRESS in Nut Turning . . . No other factor has made a greater contribution towards progress in Industry. Today machinery is complex and tremendous in scope . . . breakdowns must be quickly repaired . . . Maintenance costs must be held to a minimum . . . Speed and efficiency must be obtained in all repair and servicing operations. Industry of yesterday used monkey wrenches and calipers . . . Modern Industry uses socket wrenches and micrometers . . . Men must use better and faster tools if they are to do speedier and more efficient work . . . There is as much difference between the efficiency of the genuine "Snap-on" socket and the ordinary socket wrench as there is between the caliper and micrometer.



Tools That Men Like to Use

Every mechanic enjoys using good tools. The design . . . balance . . . finish . . . size . . . construction . . . all have a definite reaction that makes them a pleasure to hold and use. More important, however, than the mere appearance is the unseen qualities which are built into every Snap-on unit . . . Strength . . . Performance on the job . . . Uniform highest quality . . . Safety . . . Service.

Every unit in this nut-turning set has been engineered to deliver the utmost value and utility . . . from the $\frac{1}{4}$ " Midget socket to the $1\frac{3}{4}$ " Heavy Duty Loxocket, the long slender Ferret Handles for close quarter work to the powerful Heavy Duty units, you are assured of matched high quality and long, continuous service. Snap-ons are truly the tools men like to use.

The Nut Turning Set for All Industry

Snap-On "Progressive" No. 497 Nut-Turning Set

Set Contains 71 Wrench Units

A FULL range of Socket Wrenches from $\frac{1}{4}$ " to $1\frac{3}{4}$ " including 6 Midget ($\frac{3}{32}$ " Square drive) Hex sockets $\frac{1}{4}$ " to $\frac{7}{16}$ "; and 2 Midget square sockets $\frac{1}{4}$ " and $\frac{5}{16}$ "; 7 Ferret ($\frac{3}{8}$ " Square drive) Hex sockets, $\frac{3}{8}$ " to $\frac{3}{4}$ "; 12 Master ($\frac{1}{2}$ " Square drive) Straight-Walled Hex Sockets, $\frac{1}{16}$ " to 1", 5 Extra Deep Hex Sockets, $\frac{13}{16}$ " to $1\frac{1}{8}$ ", 3 Square sockets, $\frac{7}{16}$ ", $\frac{1}{2}$ ", and $\frac{9}{16}$ "; 7 Heavy Duty Loxockets, $1\frac{1}{16}$ " to $1\frac{3}{4}$ ". Every conceivable type of handle is included and a satisfactory wrench and handle combination can be quickly adapted to any nut turning problem that may be confronted.

Every Conceivable Handle Combination

Types of handles include a combination Sliding Tee and Offset Handle in Midget, Ferret, Master, and Heavy Duty series; Midget Speeder Tee, Extension Bars in 3 Ferret, 2 Master, and 2 Heavy Duty sizes; Ferret and Master Ratchets, Speeders, Universal Joints, and Screw Driver units, and a Master Nut Spinner Handle.

In addition to this socket wrench equipment we have included the six most generally needed sizes of Open End Wrenches and the four Tappet Open End Wrenches which are most usually required for automotive servicing work.

Set Complete in K-23 MechaniKit



The No. 497 "Progressive" Nut Turning Set is offered complete in the K-23 MechaniKit illustrated at the left. Three drawers of varying depths and divided into separate wrench compartments accommodate the tools, while the open top tray is extremely useful for holding those units actually in use. (Complete description of this case is given on page 86.)

Plenty of room is left for additional tools and the case can be locked securely with a padlock. It often happens that a man will spend much more than the cost of a tool in working time looking for the one he needs. With a MechaniKit of Snap-ons this waste need never occur. Complete, efficient, tool equipment quickly pays for itself.

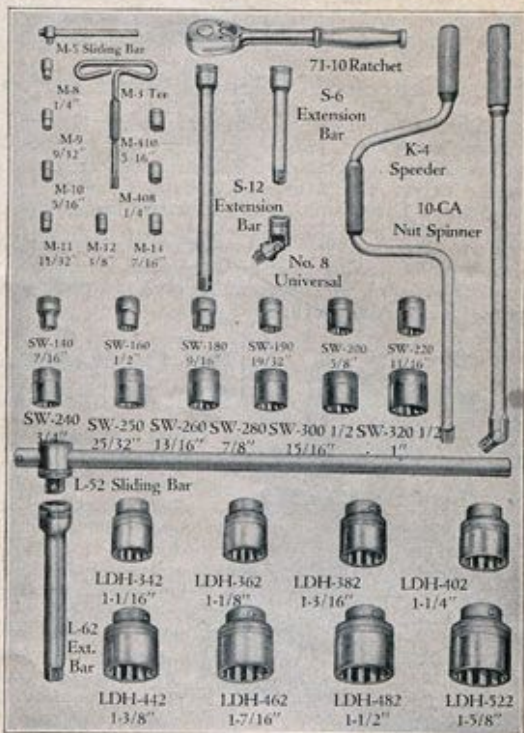
No. 497 Progressive Nut Turning Set. Tools only.....\$68.15

No. 497-B Progressive Nut Turning Set. Complete in K-23 MechaniKit.....\$80.30

Snap-On Provides Every Necessary Type of Handle

No. 477 MasterMech Socket Wrench Set

THIS set gives you the best balanced selection of matched units you could possibly demand in a general purpose socket wrench set. Midget units for ignition and carburetor work; the most popular of the Master units with thin, straight-walled hexagon sockets for easy work in close places; and a powerful Heavy Duty Sliding Bar, Extension Bar, and eight most needed Heavy Duty Hexagon Sockets for those larger, tougher jobs.



Socket Range $\frac{1}{4}$ " to $1\frac{5}{8}$ "

Including the entire range of hexagon sockets $\frac{1}{4}$ " to $1\frac{5}{8}$ ". Fits S.A.E. sizes $\frac{1}{4}$ " to $1\frac{1}{8}$ " thread diameter—U.S.S. nuts $\frac{1}{8}$ " to 1"—U.S.S. cap screws $\frac{1}{8}$ " to $1\frac{1}{4}$ ". Twenty-eight sockets with every possible handle hook-up—actually several hundred wrench combinations that every good mechanic needs. A long range of matched units that will fill the majority of your socket wrench requirements and point you out as the best equipped mechanic in your shop.

Takes All Jobs from $\frac{1}{4}$ " to $1\frac{5}{8}$ " Inclusive

Cabinet for MasterMech Socket Wrench Set

SHOWING the B-100 Metal Cabinet, especially constructed to hold all units of the No. 475 Set. This cabinet is the cure for lost tools . . . a place for every tool—makes it easy to check 'em up. Stands upright when open with all tools in plain sight and ready for use . . . they're easy to grab in a hurry. Handy to carry with comfortable leather handles . . . full length piano type hinge, grey enamel finish . . . sturdily built from heavy gauge steel with spot welded joints. Note that a bottom tray provides space for the Heavy Duty Ratchet Head.



Heavy Duty Ratchet Head Optional



Many mechanics working on trucks, etc., will find the Heavy Duty Reversible Ratchet Head a most valuable addition to this set. Locked on the end of the Sliding Tee Bar it is both a powerful and efficient wrench. See description on page 20.

L-72NA Heavy Duty Ratchet Head. Ea. . . \$6.50

Set Contains 38 Units

No. 477—MasterMech Socket Wrench Set. Tools only	\$38.40
No. 477—With Cabinet	44.65
No. 477-Y Set complete with Heavy Duty Ratchet Head. Tools only	\$44.90
No. 477-Y—With Cabinet	51.15
No. B-100 Special Metal Cabinet	6.25

Accommodates No. 80 Ferret Set

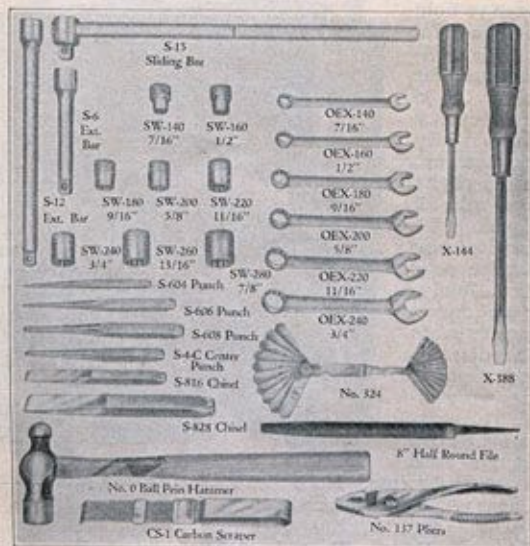
To the mechanic who wishes a 100% efficient socket wrench kit we suggest the addition of the No. 85 Ferret Set, described on page 15. Provisions are made for carrying this set as shown.



Complete Kits Contain a Wrench for Every Purpose

No. 490 General Service Set

CONSISTING of a miscellaneous selection of wrench equipment and the more necessary small hand tools . . . especially suitable for the mechanic starting to build up his tool equipment. This set provides a basic selection to which he can add other "matched units" as he feels the need for them.



Includes Master Straight-Wall socket wrench sizes from $\frac{1}{16}$ " to $\frac{7}{8}$ " inclusive, together with a combination Sliding Tee and Offset Handle and 5" and 10" Extension Bars. Combination Boxsocket and Open End Wrenches in sizes $\frac{1}{16}$ " to $\frac{3}{4}$ ", giving you both types of wrenches for the price of one. A 4" and an 8" Screw Driver, 1 lb. Ball Pein Hammer, 8" Half Round File, Heavy Duty Gripping Pliers, 3 Pin Punches, Center Punch, and two Flat Chisels $\frac{1}{2}$ " and $\frac{7}{8}$ ". Combination Ignition Gap Gauge and Feeler Gauge and a strong hand type carbon scraper.

**Set Contains
30 Units**



This tool outfit comes to you in the sturdy K-24 metal case illustrated below and described in detail on page 84. Note the handy tool carrying tray with separate socket compartment. Case is fitted with strong carrying handle and hinged hasp for padlock.

No. 490 General Service Set.
Tools only \$23.95


No. 490-B General Service Set. Complete in K-24 Mechanic Kit \$28.10

Build Your Set On a Good Foundation

Extra Heavy Duty Set

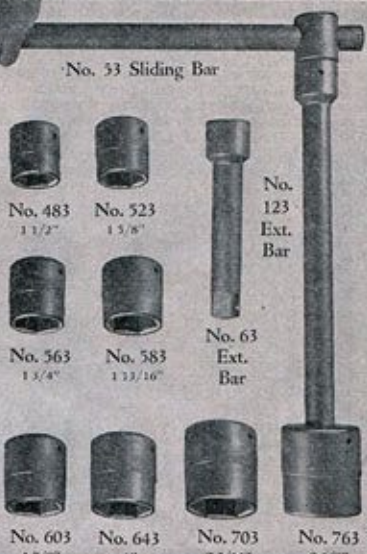
1" Square Drive

STRONGER—heavier—safer! Here is tremendous power and leverage to accomplish more work, easier and with less fatigue. We offer this Extra Heavy Duty Set as the very latest in socket wrench equipment for speeding up the heaviest nut turning work in truck or bus shops—installation and maintenance on marine and mine machinery—all power plant and transmitting machinery—locomotive and railroad shops and truck maintenance, etc.



**Safety-First
Socket Lock**

New type spring backed button fitted into handle shank engages in a hole in side wall of socket. Eliminates all danger of socket becoming detached in use. Also easier to interchange sockets.



No. 53 Sliding Bar

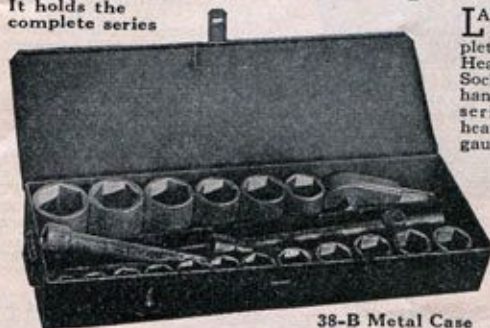
No. 483 1 1/2"	No. 523 1 5/8"	No. 123 Ext. Bar
No. 563 1 3/8"	No. 583 1 3/16"	
No. 603 1 7/8"	No. 643 2"	
		No. 63 Ext. Bar
		No. 703 2 3/16"
		No. 763 2 3/8"

THE eight powerful hexagon sockets fit S.A.E. and U.S.S. nuts and bolts from 1" to 1 1/2" thread diameter. A 24" Sliding Bar and two Extension Bars complete the set and offer a total of sixty-four different Extra Heavy Duty Wrench Combinations that will cut labor costs wherever there are large nuts or bolts to turn and afford maximum safety to workmen.

No. 1803 Extra Heavy Duty Set, Tools only.....\$34.20
See Pages 18 and 19 for complete range of units.

Case for Extra Heavy Duty Sets

It holds the complete series



38-B Metal Case

LARGE enough to accommodate the complete series of Extra Heavy Duty Hexagon Sockets together with all handles belonging to this series. Exceptionally heavy construction, 16 gauge steel closely spot welded. Lid has four good hinges and a strong pad-lock hasp. Finished in grey enamel. Equipped with heavy handles at each end. Size: 32 1/2" long, 11" wide, 4 3/4" deep. Weight 25 lbs. Each.....\$9.50

Tools With the Power of a Prize Fighter's Fist

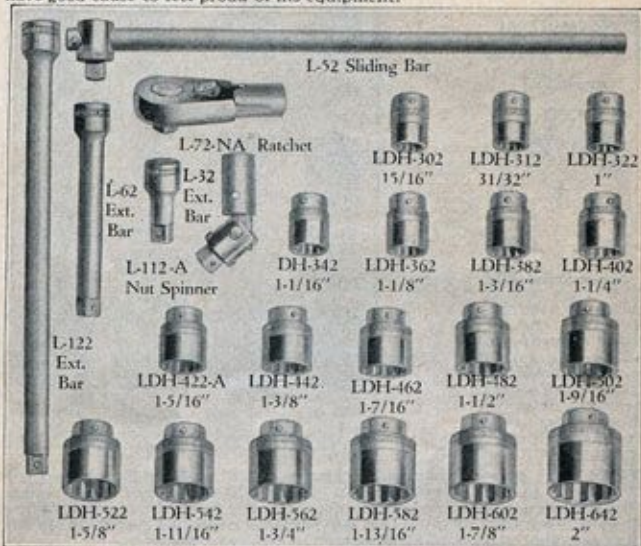
Heavy Duty Loxocket Sets

Trade Mark
3/4" Square Drive

For the Larger Nuts and Bolts

SNAP-ON offers you the finest heavy duty line ever developed. Lighter Weight, Better Steel, Safety and Convenience of a Thumb Pressure Lock and all round higher quality. Heavy Duty Loxockets cannot accidentally come apart. Slip them on and they automatically lock on—to release them simply press the Thumb Button. **Simple—Convenient—SAFE.** They can also be used with other 3/4" square drive units.

These units are built to stand up to the toughest work in truck and bus shops and in all industry where the larger sizes of nuts and bolts have to be serviced. They are the last word in heavy duty units and the owner of this fine set will have good cause to feel proud of his equipment.



See pages 20, 21, 22 for Complete range of Units



L-225 Set Contains 25 Units

This new set includes 18 Heavy Duty Loxockets, giving you a complete range of sizes from 15/16" to 2" inclusive. Handle equipment includes combination Sliding Tee and Offset Handle, Ratchet and New Nut Spinner (both with 24 1/2" handle

leverage) and three Extension Bars of 3", 8" and 16" lengths. This powerful set is especially useful wherever farm and power

machinery, graders, pavers, ditchers, and other similar machinery is used. No. 24-B Case is strongly built . . . close spot weld construction . . . strong metal carrying handle . . . padlock hasp . . . 22" long, 7 3/4" wide, 3 1/2" deep, weight 8 1/2 lbs.

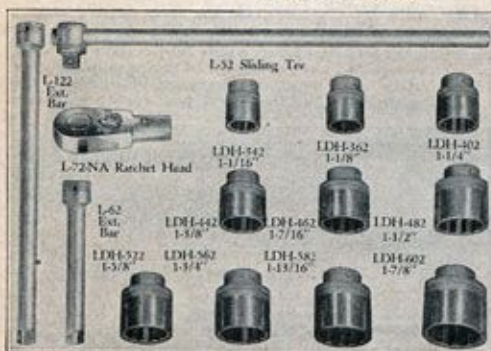
L-225 Heavy Duty Set. Tools only . . . \$44.80
L-225-B Heavy Duty Set in No. 24-B Metal Box . . . 48.40
No. 24-B Metal Box only . . . 3.60

When Time Means Money . . . Choose Loxockets

L-215 Heavy Duty Loxocket Set

Trade Mark

$\frac{3}{4}$ " Square Drive



**L-215 Set
Contains
14 Units**

FOR years this selection of Heavy Duty units has been the choice of a large majority of mechanics. Men working in fleet shops or truck and bus shops are especially enthusiastic about the convenience, power, and safe operation provided by this Heavy Duty Loxocket Set. The ten Loxocket wrench sizes included

cover a range from $1\frac{1}{8}$ " to $1\frac{7}{8}$ ". The combination Sliding Tee and Offset Handle and the powerful and compact Ratchet, both use the same $24\frac{1}{2}$ " handle, saving you the cost of an additional handle. 2 Extension Bars of 8" and 16" length complete the set.



L-215 Heavy Duty Set. Tools only...\$29.55

L-215-B Heavy Duty Set. Complete in No. 24-B Metal Box...\$33.15

L-205 Heavy Duty Set. Contains Sliding Bar, two extension bars, and eight sockets LDH-342, LDH-362, LDH-402, LDH-442, LDH-462, LDH-482, LDH-522, and LDH-562. Tools only...\$18.60

L-205-B Heavy Duty Set. Complete in No. 24-B Metal Box...22.20
No. 24-B Metal Box only...3.60

L-210 Heavy Duty Loxocket Set

**Set Contains
11 Units**

A SET of Heavy Duty Loxocket units selected to provide maximum utility at minimum cost. For the mechanic building up his tool equipment or who has only occasional need for these powerful socket wrenches nothing could be better. Eight of the most essential socket sizes, a combination Sliding Tee and Offset Handle, and an 8" Extension Bar. There's a lot of power in this small set, and it will handle many heavy duty jobs in the average garage.



L-210 Heavy Duty Set. Tools only...\$16.30

L-210-B Heavy Duty Set. Complete in No. 24-B Metal Box...19.90

No. 24-B Metal Box only...3.60

Built to Speed Up Your Heavier Nut Turning Jobs

Snap-on

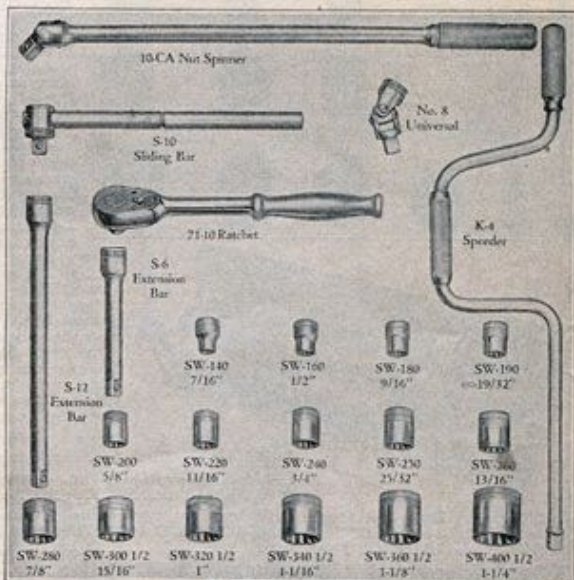
No. 47 Master Service Set

Trade Mark

With Extra Thin, Straight Walled Sockets
All Units $\frac{1}{2}$ " Square Drive

OVER half a million mechanics have made the Snap-on Master Service Set the foundation of their tool kits. Everywhere where tools are used professional mechanics have recognized the advantage of laying a foundation for a tool kit of "Matched Units" and, by gradually adding new tools as the need for them is felt, building their kit to the highest possible point of efficiency.

See pages 23 to 30 for Complete Range of Master ($\frac{1}{2}$ " sq. Drive Units)



Set Contains 22 Socket Wrench Units

This set gives you every possible type of $\frac{1}{2}$ " drive handle plus a full range of fifteen Straight-Wall Double Broached Hexagon sockets, including sizes $\frac{7}{16}$ " to $1\frac{1}{4}$ ". The 10-CA Nut Spinner has a drive hole in end of handle for use with a Ratchet or Sliding Tee, and is also drilled for use with a cross bar. The hinged end permits working at an angle. This tool can be used as an Extension, as an Offset Handle, or as a Nut Spinner. S-10 Sliding Bar can also be used as a short offset or as a Tee Handle with the head snapped into the center groove on the handle. Right up to the minute in efficiency and adaptability, and a set of "Matched Units" any man would be proud of.

No. 47 Master Service Set. Tools only.....\$23.45

No. 47-B Master Service Set in K-80 Metal Box.....25.40

K-80 Metal Box only.....1.95

Metal Cases for Snap-On Wrench Sets

For the mechanic who would prefer a large and more substantial tool chest... one that he can use for other tools, etc., we recommend those shown on pages 84, 85, 86, 87, 88, and 89.

The Foundation of a Good Set is "Matched Units"

Nut Spinner Sets

All Units 1/2" Square Drive

HERE is your handy set of tools. One of these Nut Spinner sets will do more work for its size—and make those close-corner jobs easier for you—than any other socket set you have ever seen.



Set Contains 13 Tools

Your choice of either the No. 10-CA 18", or 10-DA 15", Nut Spinner Handle described on page 24, and SW-1200 set of straight, thin-walled, double broached hexagon sockets with openings 7/16" to 1", described on page 27. Lots of wrench for little money.

No. 25-CA—Nut Spinner Set, with 18" Handle.	Tools only	\$9.85
No. 25-DA—Nut Spinner Set, with 15" Handle.	Tools only	9.80
No. 4-B Metal Case for above sets		.75

No. 44 General Utility Set

FOR the professional mechanic who needs a more complete nut turning set—one that will help him beat flat-rate and increase his earnings—we recommend this General Utility Set.

Set Contains 19 Tools

This set contains, in addition to the new No. 10-CA Nut Spinner handle, our new and improved Ratchet described on page 23, two Extension Bars of 5" and 10" lengths. Also the SW-1500 Set of thin, straight-walled sockets, 7/16" to 1 1/4" openings, described on page 27.

No. 44 General Utility Set—Tools only . . . \$18.85

K-80 Utility Case, designed to hold the above tools. As illustrated. Each . . . \$1.95



Other Metal Cases for the Above Sets

For the mechanic who prefers a larger and stronger tool case to accommodate the above sets together with his other tools, we recommend the various tool cases shown on pages 84 to 89 inclusive.

Nut Spinner Sets Make Close Corner Jobs Easy

Snap-on

No. 84 Snap-On Ferret Set

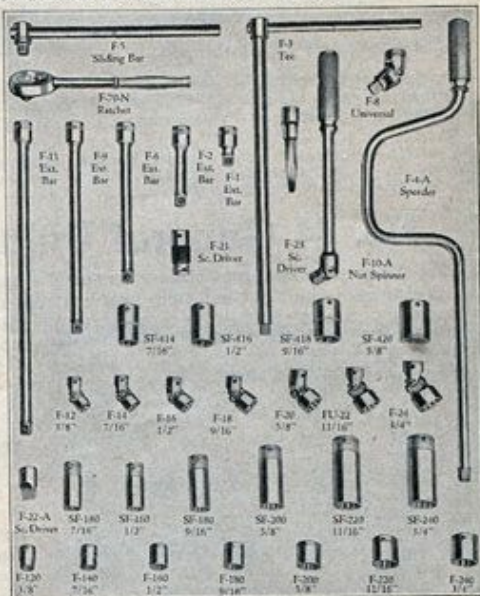
Trade name "Ferret" Reg. U.S. Pat. Off.

All Ferret Units made with 3/8" Square Drive

THESE long, slender units, like the Ferret after which they are named, squeeze into the closest places and get those hardest of the hard-to-reach nuts and bolts. Also, like the Ferret, they are twice as strong as you would expect such slender handles and shallow thin-walled type of socket to be. Snap-on originated and developed this type of socket wrench equipment and registered the name "Ferret" which exactly describes the adaptability and efficiency of these tools in speeding up nut turning jobs in tight and hard-to-get-at places.

No. 84 Ferret Set Contains 38 Units

This is the most complete Ferret Socket Wrench set that has ever been made available to the trade. Contains four types of socket equipment including 7 Standard Double Hex Ferret Sockets 3/8" to 3/4"; 6 Extra Deep Double Hex Sockets 1/4" to 3/4"; 7 Ferret Double Hex Flexsockets 3/8" to 3/4", and 4 Deep Square Sockets 1/2" to 3/4". Handle equipment is very complete and includes every type of handle. Within its range of sizes no other tool set can equal it for convenience, speed, and general utility.



Special Convenient Metal Case

A NEW case designed expressly for this large up to date Ferret set. It places all sockets where they can be easily located and leaves ample room for the addition of other tools. The handy tool tray for carrying the tools actually in use is a decided convenience and adds much to the value of the outfit.

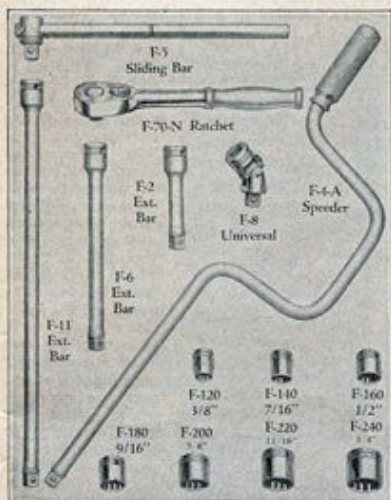
No. 84 Ferret Set. Tools only \$34.85
 No. 84-B Ferret Set in No. FB-50 Case \$38.10
 FB-50 Case only 3.25

Ferret Units Squeeze Into The Closest Places

No. 85 Snap-On Ferret Set

Trade name "Ferret" Reg. U. S. Pat. Off.

All Ferret Units made with $\frac{3}{8}$ " Square Drive



LONG a favorite with mechanics in all types of industry, this particular set comprises the units that every practical mechanic requires in every day work. Automotive, air-conditioning, oil burner, refrigeration, aeronautical mechanics, and in fact, mechanics everywhere working where there are nuts or bolts within a size range of $\frac{3}{8}$ " to $\frac{3}{4}$ " to service have given this set a hearty endorsement . . . Records prove it to be one of the most popular sets we have ever developed.

No. 85 Ferret Set contains seven handles and seven sockets $\frac{3}{8}$ " to $\frac{3}{4}$ " as illustrated . . . a practical time saving tool selection that will repay you many times the initial cost.

No. 85 Ferret Set, complete in No. 80-B Flat Ferret Tool Case . . . \$13.15



Set Contains 14 Units

See pages 31, 32, 33, and 34 for complete range of Ferret ($\frac{3}{8}$ " square drive) units.

No. 83 Ferret Speed-Flex Set

A selection of Ferret units that will handle a large percentage of jobs around the motor, transmission, etc. and recommended for the mechanic who wishes to start his Ferret outfit with a minimum of expense. It provides a good foundation upon which to build and he can add other Ferret units as the need or opportunity to buy them presents itself. Don't be satisfied to work along with tools that are more of a handicap than a help when it is so convenient to start your kit in a small way with precision engineered "Matched Units."

No. 83 Set Contains 7 Units

The five sizes of sockets which are most usually in demand are included in the Speed-Flex Set, and include $\frac{3}{8}$ " to $\frac{5}{8}$ " sizes, also the F-4-A Speeder with $17\frac{1}{2}$ " overall length and F-8 Universal Joint.

No. 83 Ferret Speed-Flex Set. Tools only . . . \$4.70



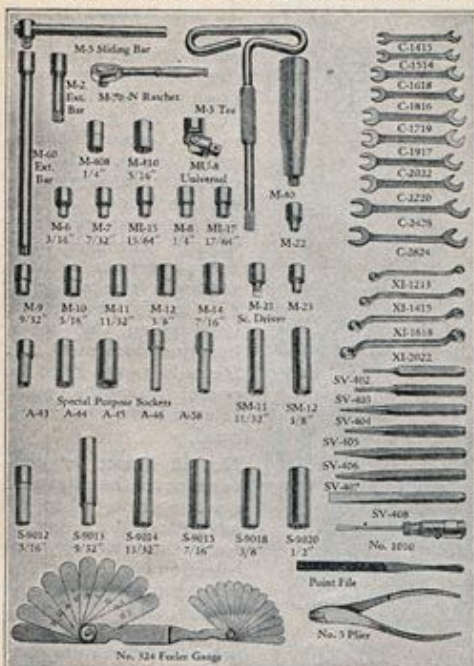
No Tool Kit Is Really Efficient Without a Ferret Set

No. 61 Midget Utility Set

Socket Wrench Units are $\frac{9}{16}$ " Square Drive

NOW! For the first time—a real utility set of Midget tools complete in one metal case and containing a **full assortment** of

Midget Wrenches and Midget Hand Tools. This set is acclaimed a God-send by and for all mechanics doing carburetor, ignition, radio, dash board work, etc. in the garage or service station. Men in other occupations, such as movie projectionists, typewriter and office machine service men, sewing machine repair men, gas, electric, and water meter repair men, and in short, everyone working where there are small machines to be adjusted or repaired will find this set the finest investment they ever made. The tools are no bigger than toys, but Snap-on high standard of quality is built into every tiny unit and each tool is a fine example of tool making craftsmanship.



**Set Contains 60 Mid-
get Size Tool Units**

Socket wrenches include 10 standard Midget hexagon sockets, $\frac{3}{16}$ " to $\frac{1}{2}$ ", 2 square sockets, $\frac{1}{4}$ " and $\frac{3}{16}$ ", 2 extra deep hexagon sockets, $\frac{11}{16}$ " and $\frac{3}{4}$ ", 2 special sockets for windshield wiper servicing, 6

special deep hex sockets, $\frac{3}{8}$ " to $\frac{1}{2}$ ", and 5 special carburetor sockets. Handles include Sliding Tee and Offset Handle, Ratchet, Tee, Pyralin shock-proof handle, two Extension Bars, and Universal Joint.

Sizes of Ignition Open Ends run from $\frac{3}{16}$ " through five sizes to $\frac{3}{4}$ " (see description on page 52) Midget Boxockets (described on page 43) give 8 sizes $\frac{1}{16}$ " to $\frac{1}{4}$ ". Seven Midget Chisels and Punches (described on page 59), Point File, Midget Pliers, Screw Driver, and combination Feeler and Gap Gauge complete this extraordinary little set.

No. 61 Midget Utility Set—complete as illustrated above in
No. 60-B Metal Case **\$29.45**

Note: As the small punches and chisels may be subjected to abuse we cannot guarantee them.

Miniature Socket Wrenches with a Thousand Uses

Midget Wrench Sets

All Units made with $\frac{3}{32}$ " Square Drive

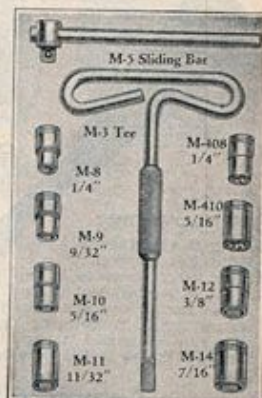
MAKES easy work of tricky carburetor and ignition jobs. Great also for all small electrical bench work—and for radio you can't afford to be without this set of Midget size Snap-Ons. Gives you socket wrench speed on numerous little nuts that are extremely annoying to work on unless you have the right tools. New Midget Ratchet of improved design. Very small handles, with single broached sockets of thin, straight wall design for easy operation in tightest places. Same quality and polished chrome finish as the larger sizes of Snap-On wrenches.

No. 55 Midget Set

Contains 10 Units

For the mechanic who wishes to start with the most popular and necessary items and gradually build up his "Midget" equipment. Contains a Speeder Tee Handle, Sliding Tee and Offset Handle, two square and six most needed sizes of Hexagon Sockets.

No. 55 Midget Set—Complete in grey enameled metal box.....\$3.75

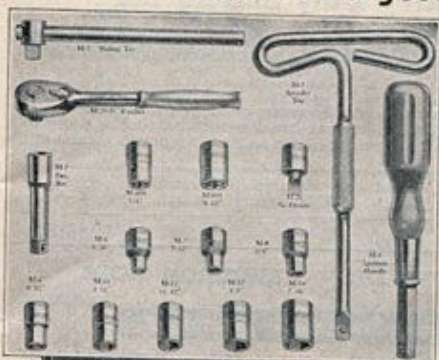


No. 58 Midget Set

Contains 16 Units

A real utility set of small units for the mechanic working on Carburetion, Ignition, Radio and other similar jobs. Motion Picture machine operators will also find this set to be just what they need for making adjustments.

It contains a dandy Reversible Ratchet, Speeder Tee, Sliding Tee, Wood Handle for electrical work, Extension Bar, and special Screw Driver Socket, two square Sockets $\frac{1}{4}$ " and $\frac{5}{16}$ " and eight sizes of hexagon Sockets $\frac{3}{16}$ " to $\frac{1}{2}$ ".



No. 58 Midget Set—Complete in grey enameled metal case.....\$7.65

See pages 35, 36 and 37 for complete descriptions and sizes of all Midget ($\frac{3}{32}$ " drive) units.

The Tools You Need for Those Tiny Jobs

Extra Heavy Duty Handles

1" Square Drive
Ratchet and Detachable Handle



36" Leverage

When this Extra Heavy Duty Ratchet is used on those larger nuts or bolts and full pressure put behind its 36" handle leverage there is no nut or bolt, however tight, that can withstand its pull. This handle takes all socket sizes listed on page 19.

STRENGTH to stand up to the heaviest type of nut turning work. Powerful leverage to break loose the tightest and largest nuts and bolts. We offer this tool without hesitation for the toughest heavy duty use. Above is the back view of the ratchet head. It locks on or detaches from the handle quickly and easily and is a solid forging with one cover plate bolted on as illustrated. All working parts are accurately machined from electric furnace alloy steel and heat treated to give maximum durability and strength. Ratchet action requires only a 20 degree handle space in which to operate.

Complete Tool

Stock No.	Overall Length	Price
No. 73	36"	\$18.75

Head Only				Handle Only			
Stock No.	Head Lgth.	Head Thick's	Price	Stock No.	Handle Diam.	Handle Lgth.	Price
73-H	9 3/8"	2"	\$14.25	73-Y	1 1/4"	31 1/2"	\$4.50

Extra Heavy Duty Sliding Bar



THIRTY full inches of tremendous leverage when this tool is used as an Offset Handle. Where is the nut that could withstand such a pull? The head can be used in any position on the bar or as a tee wrench in combination with an extension bar.

Stock No.	Square Drive	Head Depth	Handle Diameter	Overall Length	Price
No. 53	1"	3 1/8"	1 1/8"	30"	\$5.50

Extra Heavy Duty Extension Bars



TWO different length Extension Bars that give you valuable adaptability of the Ratchet or Sliding Bar to nuts and bolts down in deep holes or crevices where other tools will not reach. They are one piece units made to stand all the strain the Extra Heavy Duty handles can build up.

Stock No.	Square Drive	Shank Diam.	Shank Length	Price
No. 63	1"	1 1/4"	8"	\$2.95
No. 123	1"	1 1/4"	16"	3.95

Snap-Ons Lead in Service to the Mechanic

Extra Heavy Duty Sockets

1" Square Drive



Single Broached Hexagon

Size of Openings in ins.	Single Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1 7/16	463	\$1.45	1.968	2 1/16	2 1/4	1	7/8			
1 1/2	483	1.55	2.093	2 1/8	2 3/8			1 1/4	1	1 1/8
1 9/16	503	1.55	2.187	2 1/4	2 1/2					
1 5/8	523	1.80	2.187	2 1/4	2 1/2	1 1/8	1			
1 11/16	543	1.95	2.310	2 3/8	2 3/4				1 1/8	1 1/4
1 3/4	563	2.25	2.310	2 3/8	2 3/4					
1 13/16	583	2.25	2.468	2 9/16	2 3/4	1 1/4	1 1/8			
1 7/8	603	2.65	2.540	2 5/8	2 7/8				1 1/4	
2	643	2.90	2.656	2 3/4	3	1 3/8	1 1/4			
2 1/8	683	3.60	2.781	2 7/8	3 3/8					
2 3/16	703	3.75	2.906	3	3 3/8	1 1/2	1 3/8			
2 1/4	723	4.00	3.016	3 1/8	3 3/8				1 1/2	
2 3/8	763	4.65	3.156	3 1/4	3 5/8		1 1/2			
2 1/2	803	5.75	3.365	3 7/16	3 7/8					
2 5/8	843	6.50	3.437	3 7/16	3 7/8				1 3/4	
2 3/4	883	7.35	3.625	3 3/4	4 1/4		1 3/4			
2 15/16	943	9.00	4.000	4 1/8	4 1/2		1 7/8			
3 1/8	1003	10.25	4.125	4 1/8	4 1/2		2			

Larger Sizes Available on Special Order.

Extra Deep Hexagon

Size of Openings in ins.	Extra Deep Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1 1/4	S-403	\$1.85	1.812	1 15/16	3 1/2	7/8	3/4	1		
1 7/16	S-463	2.00	2.062	2 1/16	3 1/2	1	7/8			
1 5/8	S-523	2.40	2.250	2 1/4	3 1/2	1 1/8	1			

Double Broached Square

Size of Openings in ins.	Double Sq. Sockets		Outside Diameter		Over-all L'gth	USS Sq. Nuts	USS Sq. Hd. Cap Sc.	USS Sq. Hd. Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nut	Sq. Cap Sc.
1 7/16	746	\$3.50	2.437	2 5/8	2 5/8	7/8				
1 9/16	750	3.75	2.750	2 3/4	2 3/4					
1 5/8	752	4.25	2.750	2 3/4	2 7/8	1				
1 11/16	754	4.50	2.875	2 7/8	3 3/8				1 1/8	1 1/4
1 7/8	761	5.25	3.125	3 1/8	3 3/8				1 1/4	

Built to Stand The Toughest Pull

Heavy Duty Handles

$\frac{3}{4}$ " Square Drive Ratchet—Detachable Type

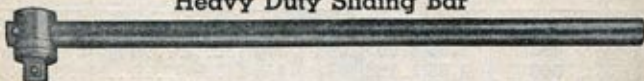


Pat. No. 1,854,513

POWERFUL leverage to break loose the tightest of those larger nuts and bolts. Efficient, smooth working, reversible ratcheting action that speeds your work. Rugged construction to stand the most strenuous heavy duty work in general auto, bus, and truck repair shops, etc. Built into this tool is every conceivable improvement of design and construction, making it the most outstanding $\frac{3}{4}$ " drive heavy duty ratchet ever offered the trade.

Complete Tool			Ratchet Head Only				
Stock No.	Overall Length	Price	Stock No.	Square Drive	Head Length	Head Th'kness	Price
L-72N	24 $\frac{1}{2}$ "	\$8.20	L-72NA	$\frac{3}{4}$ "	6"	1 $\frac{1}{8}$ "	\$6.50

Heavy Duty Sliding Bar



THREE Tools in one—a combination sliding bar handle and offset handle, while the attachment of an extension bar converts it to a Tee Handle. The Head can be purchased separately and the one bar used for both sliding bar and ratchet handle. Head is held at any point on the bar by a spring ball device.

Complete Tool			Sliding Tee Head Only			
Stock No.	Overall Length	Price	Stock No.	Square Drive	Head Depth	Price
L-52	21 $\frac{1}{2}$ "	\$3.15	L-52-A	$\frac{3}{4}$ "	2 $\frac{5}{16}$ "	\$1.45

Handle for Ratchet or Sliding Bar



This handle is a solid high carbon alloy steel bar and is used for both the Heavy Duty Ratchet and the Heavy Duty Sliding Bar. One end is fitted with a locking device for attaching to ratchet head—easy to lock on or to remove. No. 72-H Handle, $\frac{3}{8}$ " Dia., 21 $\frac{1}{2}$ " long, each.....\$1.70

Heavy Duty Nut Spinner



A new Heavy Duty unit that offers the advantages of a Heavy Duty Nut Spinner Handle, an Offset Handle and an Angle Head Handle all in one. A feature of this tool is that it is used with the L-72-H Handle listed above, giving a maximum tool efficiency at a minimum cost. The entire unit is built to take those large, tough jobs which require extra powerful leverage to break loose or tighten them home.

COMPLETE TOOL			SWIVEL HEAD ONLY				
Stock No.	Overall Length	Price	Stock No.	Square Drive	Head Diam.	Head Depth	Price
L-112	21"	\$4.45	L-112-A	$\frac{3}{4}$ "	1 $\frac{3}{8}$ "	2 $\frac{3}{16}$ "	\$2.75

Heavy Duty Universal Joint



Fitted with tension spring which holds the tool at any desired angle for application to the job . . . an important new feature.

Stock No.	Square Drive	Outside Diameter	Overall Length	Price
L-82	$\frac{3}{4}$ "	1 $\frac{3}{8}$ "	4 $\frac{1}{8}$ "	\$4.75

There's a Snap-On Socket Wrench for Every Purpose

Heavy Duty Units

$\frac{3}{4}$ " Square Drive

Heavy Duty Extension Bars



Stock No.	Square Drive	Shank Diameter	Shank Length	Price
L-32	$\frac{3}{4}$ "	$1\frac{5}{16}$ "	3"	\$1.45
L-62	$\frac{3}{4}$ "	$1\frac{5}{16}$ "	8"	1.85
L-122	$\frac{3}{4}$ "	$1\frac{5}{16}$ "	16"	2.30

Heavy Duty Drag Link Socket

A sturdy screw driver type socket wrench for tightening large slotted nuts on trucks, buses, etc.

Stock No.	Square Drive	Blade		Overall Length	Price
		Width	Thickness		
A-76	$\frac{3}{4}$ "	$1\frac{1}{8}$ "	$1\frac{13}{16}$ "	$1\frac{13}{16}$ "	\$1.45



Special Socket for Budd Wheels

A $1\frac{13}{16}$ " single broached Square Socket built to stand the gaff on Budd truck wheels. It's a tough job, but this tool has the guts to take it. No standard socket is built to stand up on this job, so don't use anything but the proper tool. No. A-41... Each \$1.55

Heavy Duty Loxockets

Trade Mark

In industry such as in railroad shops, and in truck and bus shops, etc., these tools are ideal for a large percentage of nut turning operations. The use of Snap-on Socket Wrenches not only speeds up all wrench jobs but puts "Safety First" into the hands of every mechanic.



Double Broached Hexagon

Size of Openings in ins.	Double Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
$1\frac{1}{16}$	LDH-302	\$0.85	1.375	$1\frac{13}{32}$	2	$\frac{5}{8}$	...	...	$\frac{5}{8}$	...
$1\frac{1}{8}$	LDH-312	.85	1.406	$1\frac{13}{32}$	2	...	$\frac{3}{16}$	...	...	...
1	LDH-322	.90	1.440	$1\frac{13}{32}$	$2\frac{1}{16}$	$1\frac{1}{16}$	...	$\frac{3}{4}$	...	$\frac{3}{4}$
$1\frac{1}{16}$	LDH-342	1.00	1.562	$1\frac{13}{32}$	$2\frac{1}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	...	...	...
$1\frac{1}{8}$	LDH-362	1.00	1.625	$1\frac{13}{32}$	$2\frac{3}{16}$	...	...	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
$1\frac{3}{16}$	LDH-382	1.05	1.687	$1\frac{13}{32}$	$2\frac{1}{4}$	...	...	...	...	...
$1\frac{1}{4}$	LDH-402	1.20	1.781	$1\frac{13}{32}$	$2\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$	1	...	...
$1\frac{5}{16}$	LDH-422-A	1.25	1.875	$1\frac{1}{2}$	$2\frac{5}{16}$	...	...	...	$\frac{7}{8}$	1
$1\frac{3}{8}$	LDH-442	1.30	1.937	$1\frac{1}{2}$	$2\frac{5}{16}$	...	...	$1\frac{1}{8}$	...	...
$1\frac{7}{16}$	LDH-462	1.45	2.032	$1\frac{1}{2}$	$2\frac{3}{8}$	1	$\frac{7}{8}$	...	...	...
$1\frac{1}{2}$	LDH-482	1.55	2.093	$1\frac{1}{2}$	$2\frac{1}{2}$	...	...	$1\frac{1}{4}$	1	$1\frac{1}{8}$
$1\frac{9}{16}$	LDH-502	1.55	2.187	$1\frac{1}{2}$	$2\frac{5}{8}$	...	...	...	...	...
$1\frac{5}{8}$	LDH-522	1.80	2.250	$1\frac{5}{8}$	$2\frac{5}{8}$	$1\frac{1}{8}$	1	...	...	...
$1\frac{11}{16}$	LDH-542	1.95	2.375	$1\frac{5}{8}$	$2\frac{3}{4}$	...	...	...	$1\frac{1}{8}$	$1\frac{1}{4}$
$1\frac{3}{4}$	LDH-562	2.00	2.406	$1\frac{5}{8}$	$2\frac{3}{4}$	...	...	...	...	...
$1\frac{13}{16}$	LDH-582	2.10	2.500	$1\frac{3}{4}$	$2\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{1}{8}$	...	...	...
$1\frac{7}{8}$	LDH-602	2.35	2.562	$1\frac{3}{4}$	3	...	...	...	$1\frac{1}{4}$	...
2	LDH-642	2.65	2.750	$1\frac{3}{4}$	$3\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{4}$	...	...	...
$2\frac{1}{8}$	LDH-682	3.35	2.937	$1\frac{3}{4}$	$3\frac{1}{4}$	...	...	...	...	...

Sockets That Get Those Large Truck and Bus Jobs

Snap-on

Heavy Duty Loxockets

$\frac{3}{4}$ " Square Drive Trade Mark



Single Broached Hexagon

Size of Openings in ins.	Single Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
$\frac{15}{16}$	L-302	\$0.85	1.375	$1\frac{7}{16}$	2	$\frac{5}{8}$	.....	.....	$\frac{5}{8}$	.....
$\frac{31}{32}$	L-312	.85	1.406	$1\frac{7}{16}$	2	.....	$\frac{9}{16}$	.....	.....	.....
1	L-322	.90	1.440	$1\frac{1}{2}$	$2\frac{1}{16}$	$\frac{11}{16}$	.....	$\frac{3}{4}$	.....	$\frac{3}{4}$
$1\frac{1}{16}$	L-342	1.00	1.562	$1\frac{13}{32}$	$2\frac{1}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	.....	.....	.....
$1\frac{1}{8}$	L-362	1.00	1.625	$1\frac{13}{32}$	$2\frac{3}{16}$	.....	.....	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
$1\frac{3}{16}$	L-382	1.05	1.687	$1\frac{13}{32}$	$2\frac{1}{4}$	.....	.....	.....	.....	.....
$1\frac{1}{4}$	L-402	1.20	1.781	$1\frac{13}{32}$	$2\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$	1	.....	.....
$1\frac{5}{16}$	L-422-A	1.25	1.875	$1\frac{1}{2}$	$2\frac{5}{16}$	.....	.....	.....	$\frac{7}{8}$	1
$1\frac{3}{8}$	L-442	1.30	1.937	$1\frac{1}{2}$	$2\frac{5}{16}$	.....	.....	$1\frac{1}{8}$	.....	.....
$1\frac{7}{16}$	L-462	1.45	2.032	$1\frac{1}{2}$	$2\frac{3}{8}$	1	$\frac{7}{8}$	.....	.....	.....
$1\frac{1}{2}$	L-482	1.55	2.093	$1\frac{1}{2}$	$2\frac{1}{2}$	.....	.....	$1\frac{1}{4}$	1	$1\frac{1}{8}$
$1\frac{9}{16}$	L-502	1.55	2.187	$1\frac{1}{2}$	$2\frac{5}{8}$	.....	.....	.....	.....	.....
$1\frac{5}{8}$	L-522	1.80	2.250	$1\frac{5}{8}$	$2\frac{5}{8}$	$1\frac{1}{8}$	1	.....	.....	.....
$1\frac{11}{16}$	L-542	1.95	2.375	$1\frac{5}{8}$	$2\frac{3}{4}$	.....	.....	.....	$1\frac{1}{8}$	$1\frac{1}{4}$
$1\frac{3}{4}$	L-562	2.00	2.406	$1\frac{5}{8}$	$2\frac{3}{4}$	.....	.....	.....	.....	.....
$1\frac{13}{16}$	L-582	2.10	2.500	$1\frac{3}{4}$	$2\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{1}{8}$	.....	.....	.....
$1\frac{7}{8}$	L-602	2.35	2.562	$1\frac{3}{4}$	3	.....	.....	.....	$1\frac{1}{4}$	.....
2	L-642	2.65	2.750	$1\frac{3}{4}$	$3\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{4}$	.....	.....	.....

Extra Deep Hexagon

Size of Openings in ins.	Extra Deep Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
$\frac{15}{16}$	LS-302	\$1.55	1.375	$1\frac{13}{32}$	$3\frac{1}{2}$	$\frac{5}{8}$	.....	.....	$\frac{5}{8}$	.....
1	LS-322	1.60	1.440	$1\frac{13}{32}$	$3\frac{1}{2}$	$\frac{11}{16}$	.....	$\frac{3}{4}$	.....	$\frac{3}{4}$
$1\frac{1}{16}$	LS-342	1.60	1.562	$1\frac{13}{32}$	$3\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$	.....	.....	.....
$1\frac{1}{8}$	LS-362	1.60	1.625	$1\frac{13}{32}$	$3\frac{1}{2}$	.....	.....	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
$1\frac{1}{4}$	LS-402	1.85	1.781	$1\frac{13}{32}$	$3\frac{1}{2}$	$\frac{7}{8}$	$\frac{3}{4}$	1	.....	.....
$1\frac{1}{2}$	LS-462	2.10	2.032	$1\frac{1}{2}$	$3\frac{1}{2}$	1	$\frac{7}{8}$	.....	.....	.....
$1\frac{3}{4}$	LS-482	2.20	2.093	$1\frac{1}{2}$	$3\frac{1}{2}$	.....	.....	$1\frac{1}{4}$	1	$1\frac{1}{8}$
$1\frac{5}{8}$	LS-522	2.45	2.250	$1\frac{5}{8}$	$3\frac{1}{2}$	$1\frac{1}{8}$	1	.....	.....	.....

Double Broached Square

Size of Openings in ins.	Double Square Sockets		Outside Diameter		Over-all L'gth	USS Sq. Nuts	USS Sq. Hd. Cap Sc.	USS Sq. Head Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nuts	Sq. Cap Sc.
$\frac{7}{8}$	L-628	\$1.15	1.625	$1\frac{13}{32}$	$2\frac{3}{16}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{8}$
1	L-632	1.30	1.813	$1\frac{13}{32}$	$2\frac{5}{16}$	.....	.....	1	.....	$\frac{3}{4}$
$1\frac{1}{16}$	L-634	1.40	1.938	$1\frac{1}{2}$	$2\frac{5}{16}$	$\frac{5}{8}$	.....	.....	.....	.....
$1\frac{1}{4}$	L-644	1.80	2.250	$1\frac{5}{8}$	$2\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	.....	.....
$1\frac{3}{4}$	L-646	2.40	2.562	$1\frac{3}{4}$	3	$\frac{7}{8}$	.....	.....	.....	.....

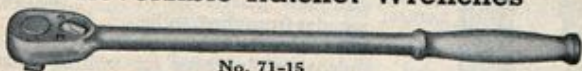
A Tough Job?—Then Use a Snap-On Heavy Duty

Master Handles

$\frac{1}{2}$ " Square Drive

EVERY Snap-On Master Handle fits every Master Socket and Attachment. Socket receiving ends are $\frac{1}{2}$ " square. A spring-backed friction ball, recessed into the shank, grips and holds the socket firmly, yet permits interchanging sockets quickly and easily.

Reversible Ratchet Wrenches



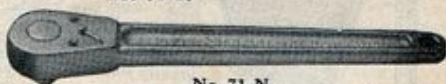
No. 71-15

3



No. 71-10

TYPES OF
MASTER RATCHETS
NOW AVAILABLE



No. 71-N

THE principles of design and construction embodied in Snap-on Reversible Ratchets have been tested and proved for several years on the torture rack of everyday professional use and abuse. Improvements have continually been made, and today the Ratchet Wrench built by Snap-on is regarded by mechanics in all fields of work as the outstanding tool of its type. The convenience of the reverse action must be experienced to be properly appreciated . . . no push-through plug to bother with . . . no stopping to change sockets from one side of the wrench to the other . . . it never leaves the nut until the operation is completed. Reversing action is simple and smooth acting . . . it works with only a 20° handle movement . . . all working parts are accurately heat treated, machined, and finished.

Stock No.	Square Drive	Head Thickness	Overall Length	Price
71-N	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$9\frac{31}{32}$ "	\$3.75
71-15	$\frac{1}{2}$ "	$\frac{3}{4}$ "	15"	4.35
71-10	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$9\frac{13}{16}$ "	4.15



Dual Ratchet Wrenches

A MOST convenient and handy wrench for manifold nuts, exhaust flange nuts, body bolts, etc. Ratcheting action works exceptionally free and has no back-lash. Extremely strong construction—polished chrome finish.

Stock No.	Wrench			Overall Length	Price
	Sizes		Thickness		
75	$\frac{1}{2}$ "	$\frac{9}{16}$ "	.406	$6\frac{31}{32}$ "	\$1.95
76	$\frac{5}{8}$ "	$\frac{11}{16}$ "	.468	$7\frac{7}{8}$ "	2.00
79	$\frac{3}{4}$ "	$\frac{7}{8}$ "	.500	$8\frac{19}{32}$ "	2.30

Universal Joint for Master Handles



Note the slender, compact design. Works freely at nearly a 90° angle. Now fitted with exclusive spring device which will hold the joint at any angle for easy application to the job, but which does not interfere with the swivel action of the tool in use. Built for a lifetime of service . . . Polished chrome finish.

Stock No.	Square Drive	Outside Diameter	Overall Length	Price
8	$\frac{1}{2}$ "	$1\frac{5}{16}$ "	$2\frac{21}{32}$ "	\$1.60

Built Better Today Than They've Ever Been Built

Nut Spinner Handles

1/2" Square Drive

THESE Nut Spinner Handles provide great utility. The hinged socket receiving end allows you to clear obstructions and is fitted with a special locking device that holds it firmly in one of five chosen positions or angles from the handle. The handles give plenty of leverage for pulling nuts up tight or breaking them loose.



PAT. NO.
2,028,561



Straighten out the hinge and you have a speeder for spinning them on or off. A hole is drilled through the knurled handle grip for use with a bar, and the handle is broached on the end with a 1/2" square to receive offset, sliding tee or ratchet handles. Bars are not included with these tools. Use these handles to advantage on many jobs and save yourself a lot of hard work.

Stock No.	Square Drive	Head Diam.	Overall Length	Price
10-CA	1/2"	1 1/16"	18"	\$2.75
10-DA	1/2"	1 1/16"	15"	2.70

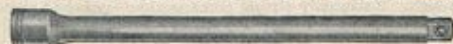
Offset Handle



NOTE the compact design of the drive end. This tool will reach into many close places and simplify many otherwise difficult jobs. Electric furnace alloy steel, 5/8" diameter round stock, providing powerful leverage and great strength to break loose those extra tight nuts and bolts.

Stock No.	Square Drive	Head Diam.	Head Depth	Overall Length	Price
1	1/2"	5/8"	1 5/16"	11 1/4"	\$1.45

Extension Bars for Master Handles



Stock Number	Square Drive	Shank Length	Price
S-2	1/2"	2"	\$0.65
S-6	1/2"	5"	.85
S-12	1/2"	10"	1.10
S-20	1/2"	20"	1.55
S-24	1/2"	24"	1.65

Swivel Grip Extension Bars



Stock Number	Square Drive	Shank Length	Price
SG-6	1/2"	6"	\$1.30
SG-12	1/2"	12"	1.50

Snap-On Provides Every Necessary Type of Handle

Master Handles

$\frac{1}{2}$ " Square Drive

ALL Snap-On wrench handles are made of a special analysis steel, selected for strength and toughness, and are put through a careful heat treating process which gives them the unusual durability and long life for which they are noted.

Speed Tee Handle

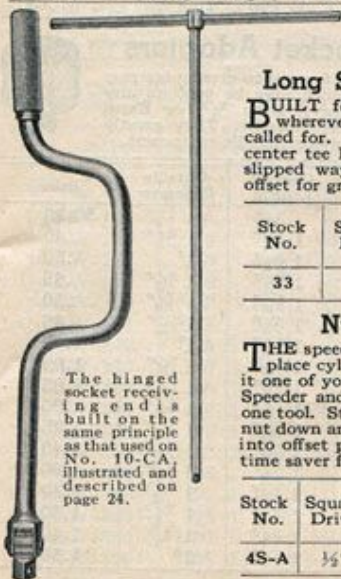
PLENTY of leverage for loosening or tightening nuts. Knurled swivel center grip permits easy, rapid spinning. New stop collar holds socket in positive position. $\frac{1}{2}$ " diameter round shank, 12" long.

Stock No.	Sq. Drive	Shank Lgth.	Tee Width	Price
3	$\frac{1}{2}$ "	12"	$7\frac{9}{16}$ "	\$1.50

Speeder Handles

THESE speeders are of improved design, with comfortable knurled swivel center grip and end grip—easy and handy to use. New stop collar on socket receiving end holds socket in positive position. $\frac{1}{2}$ " diameter round stock.

Stock No.	Shank Lgth.	Overall Lgth.	Sweep Radius	Price
K-4	8"	$18\frac{3}{4}$ "	$4\frac{1}{8}$ "	\$1.75
K-4C	4"	$14\frac{3}{4}$ "	$4\frac{1}{8}$ "	1.75



The hinged socket receiving end is built on the same principle as that used on No. 10-CA, illustrated and described on page 24.

No. 3 Speed Tee

K-4 Speeder

The polished Chrome finish applied to all Snap-on Handles imparts a more durable and rust-repelling surface; and a lustrous and more pleasing appearance.

Knob Handles for Speeders



A most useful addition to your tool kit... this hard rubber knob handle slips over the end of your speeder handle and gives you a comfortable grip. No. 45-1 Knob Handle. Each. \$0.25

Long Shank Speeder Tee

BUILT for speedy nut turning work wherever extra long reaching power is called for. The tool can be used as a center tee handle or the cross bar can be slipped way to the end and used as an offset for greater leverage.

Stock No.	Square Drive	Shank Length	Cross Bar Length	Price
33	$\frac{1}{2}$ "	$29\frac{1}{2}$ "	18"	\$2.95

Nut Spinner Speeder

THE speed with which you can remove or replace cylinder heads with this tool will make it one of your favorite tools. It's a combination Speeder and Nut Spinner and Offset Handle in one tool. Straighten the hinged head to spin the nut down and, without taking it off the job, bend into offset position to pull it down tight. A big time saver for general use.

Stock No.	Square Drive	Sweep Radius	Shank Length	Over-all Length	Price
4S-A	$\frac{1}{2}$ "	$3\frac{1}{8}$ "	$6\frac{3}{8}$ "	$16\frac{1}{2}$ "	\$2.90

Speed Up Your Nut Turning Operations

Master Handles

$\frac{1}{2}$ " Square Drive

Sliding Tee Handles



COMBINATION Sliding Tee and Offset Handles that can be used directly in combination with the sockets or with other handle and extension hook-ups.

A spring backed ball inside the head snaps into the center groove to make a practical Tee without preventing free action as a sliding bar. The head locks on either end of bar to form a practical offset handle with the head flush with the end of bar.

Stock Number	Square Drive	Head Depth	Handle		Price
			Length	Diam.	
S-10	$\frac{1}{2}$ "	$1\frac{3}{4}$ "	10"	$\frac{5}{8}$ "	\$1.25
S-15	$\frac{1}{2}$ "	$1\frac{3}{4}$ "	15"	$\frac{5}{8}$ "	1.45

Drag Link Adjusters

TIGHTENING slotted nuts on steering gear assemblies, drag links and tie rods is made easy by using these adjuster sockets on a "Master" size handle. They are ideal wherever slotted nuts are used. The A-26 is designed especially for use on Model "A" Ford and Houdaille Shock Absorbers.



Stock No.	Square Drive	Blade		Overall Length	Price
		Width	Thickness		
A-15	$\frac{1}{2}$ "	$1\frac{3}{16}$ "	.120	$1\frac{11}{16}$ "	\$0.80
A-17	$\frac{1}{2}$ "	$\frac{15}{16}$ "	.120	$1\frac{13}{32}$ "	.65
A-26	$\frac{1}{2}$ "	$\frac{47}{64}$ "	.190	$1\frac{19}{32}$ "	.65

Handle and Socket Adaptors



These units make it possible for you to greatly increase the range of socket sizes which may be used on any Ferret $\frac{3}{8}$ ", Master $\frac{1}{2}$ ", Heavy Duty $\frac{3}{4}$ ", or Extra Heavy Duty 1" Square Drive Handle. They greatly increase the utility of your present handle equipment.



Stock No.	Handle End	Drive End	Overall Length	Outside Diameter	Price
A-3	$\frac{9}{32}$ "	$\frac{3}{8}$ "	$\frac{7}{8}$ "	$\frac{1}{2}$ "	\$0.35
M-1	$\frac{3}{8}$ "	$\frac{9}{32}$ "	$1\frac{3}{64}$ "	$\frac{5}{8}$ "	.40
HD-1	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$1\frac{5}{8}$ "	1"	.50
HD-2	$\frac{5}{8}$ "	$\frac{1}{2}$ "	$1\frac{21}{32}$ "	$1\frac{3}{16}$ "	.65
A-4	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$1\frac{5}{16}$ "	$\frac{7}{8}$ "	.50
A-2	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$1\frac{3}{8}$ "	$1\frac{21}{32}$ "	.45
LA-12	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$1\frac{11}{16}$ "	1"	.75
LA-62	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$1\frac{11}{16}$ "	$1\frac{7}{16}$ "	1.00
LA-52	$\frac{3}{4}$ "	$\frac{5}{8}$ "	$1\frac{11}{16}$ "	$1\frac{7}{16}$ "	1.05
LA-32	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$1\frac{11}{16}$ "	$1\frac{3}{16}$ "	.90
LA-42	$\frac{3}{4}$ "	$\frac{7}{8}$ "	$1\frac{15}{16}$ "	$1\frac{7}{16}$ "	1.25
LA-82	$\frac{7}{8}$ "	$\frac{3}{4}$ "	$2\frac{1}{16}$ "	$1\frac{11}{16}$ "	1.40
HD-3	$\frac{5}{8}$ "	$\frac{7}{8}$ "	$1\frac{7}{8}$ "	$1\frac{1}{4}$ "	.90
LA-72	$\frac{3}{4}$ "	1"	$2\frac{1}{8}$ "	$1\frac{7}{16}$ "	1.30
LA-124	1"	$\frac{3}{4}$ "	$2\frac{3}{8}$ "	$1\frac{7}{8}$ "	1.50
A-122	$\frac{7}{8}$ "	1"	$2\frac{3}{8}$ "	$1\frac{3}{4}$ "	1.40
HD-10	1"	$\frac{7}{8}$ "	$2\frac{1}{2}$ "	2"	1.50

Snap-Ons Lead in Service to the Mechanic

Master Sockets

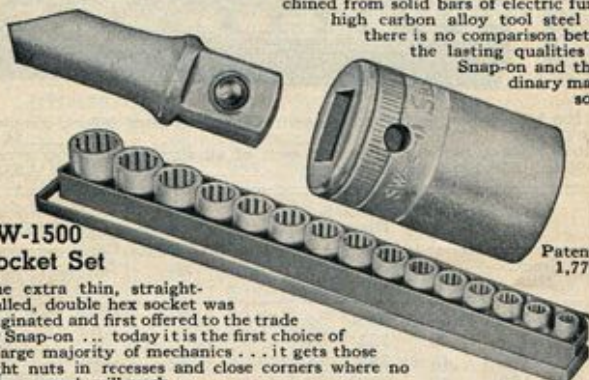
1/2" Square Drive

Extra Thin, Straight-Walled Hexagon Sockets

Double Broached Series

THE foundation of a good tool kit is a complete series of "matched" socket wrenches. Snap-on offers "the most complete line of its kind." We can supply the correct type of socket for every nut turning job . . . Whitworth and Metric sizes are available in many series for the convenience of overseas customers. Snap-on sockets are machined from solid bars of electric furnace

high carbon alloy tool steel . . . there is no comparison between the lasting qualities of a Snap-on and the ordinary make of socket.



SW-1500 Socket Set

Patent No. 1,772,723

The extra thin, straight-walled, double hex socket was originated and first offered to the trade by Snap-on . . . today it is the first choice of a large majority of mechanics . . . it gets those tight nuts in recesses and close corners where no other wrench will work.

No. SW-1500 Set—all sizes except SW-120, SW-290 and SW-380 1/2 in 15-B tray . . . \$10.00

No. SW-1200 Set—SW-140 to SW-320 1/2 inclusive with exception of SW-290 in 5-B tray . . . 7.10

No. SW-1000 Set—SW-140 to SW-280 inclusive in 5-B tray . . . 5.45

Size of Openings in ins.	Double Hex. Straight Wall		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
3/8	SW-120	\$0.50	.530	7/8	1 1/2			3/16		
7/16	SW-140	.50	.625	7/8	1 1/2	1/4		1/4	1/4	1/4
1/2	SW-160	.50	.711	7/8	1 1/2	5/16	1/4	5/16		5/16
9/16	SW-180	.50	.789	7/8	1 1/2	3/8		3/8	5/16	3/8
1 1/8	SW-190	.50	.828	7/8	1 1/2		5/16			
1 1/4	SW-200	.50	.875	7/8	1 1/2	7/16		7/16	3/8	7/16
1 3/8	SW-220	.55	.947	61/64	1 1/2		3/8			
1 1/2	SW-240	.60	1.010	1 1/64	1 1/2	1/2		1/2	7/16	1/2
1 5/8	SW-250	.60	1.062	1 1/16	1 1/2		7/16			
1 3/4	SW-260	.60	1.125	1 1/8	1 1/2			9/16	1/2	9/16
1 7/8	SW-280	.60	1.187	1 3/16	1 1/2	9/16	1/2	5/8	9/16	5/8
2	SW-290	.75	1.250	1 1/4	1 1/2					
2 1/8	SW-300 1/2	.80	1.250	1 1/4	1 1/2	5/8			5/8	
2 1/4	SW-320 1/2	.85	1.312	1 5/16	1 1/2	1 1/16		3/4		3/4
2 3/8	SW-340 1/2	.90	1.437	1 7/16	1 5/8	3/4	5/8			
2 1/2	SW-360 1/2	.95	1.500	1 1/2	1 3/4			7/8	3/4	7/8
2 7/8	SW-380 1/2	1.00	1.625	1 5/8	1 3/4					
3	SW-400 1/2	1.05	1.687	1 11/16	1 7/8	7/8	3/4	1		

*SW-290 is built extra heavy for shackle bolt work.

Machined from Bars of Electric Furnace Tool Steel

Master Sockets

1/2" Square Drive

Single Hexagon Straight Walled Sockets

OUR extra thin straight wall sockets take the lead in making your work easier. As we make them now they are stronger than ever and will stand up under all the hard use you can give them. We have now added this new Single Hexagon series to the straight walled socket line as an accommodation to those individuals who prefer the single broached socket type. This new series carries the same high standards of quality which have long been associated with the popular double broached series and covers a range from 7/16" to 1".



TW-1200 Socket Set, including one each of all sizes listed below, complete in 5-B Tray.....

\$6.50

TW-1000 Socket Set, including one each of all sizes listed below except TW-190 and TW-250 in 16-B Tray.....

\$5.50

Size of Openings in ins.	Single Hexagon		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
7/16	TW-140	\$0.45	.635	7/8	1 1/2	1/4	...	1/4	1/4	1/4
1/2	TW-160	.45	.721	7/8	1 1/2	5/16	1/4	5/16	...	5/16
9/16	TW-180	.45	.799	7/8	1 1/2	3/8	...	3/8	5/16	3/8
1 1/8	TW-190	.45	.838	7/8	1 1/2	...	5/16	...	...	...
5/8	TW-200	.45	.875	27/32	1 1/2	7/16	...	7/16	3/8	7/16
1 1/16	TW-220	.50	.947	15/16	1 1/2	...	3/8	...	...	...
3/4	TW-240	.55	1.010	1	1 1/2	1/2	...	1/2	7/16	1/2
23/32	TW-250	.55	1.062	1 1/32	1 1/2	...	7/16	...	...	...
13/16	TW-260	.55	1.125	1 1/8	1 1/2	...	...	9/16	1/2	9/16
7/8	TW-280	.55	1.187	1 5/32	1 1/2	9/16	1/2	5/8	9/16	5/8
15/16	TW-300 1/2	.75	1.250	1 3/32	1 1/2	5/8	...	...	5/8	...
1	TW-320 1/2	.80	1.312	1 1/32	1 1/2	11/16	...	3/4	...	3/4



Double Hexagon Flexockets

Trade Mark

IMPROVED type, thinner and straighter walls and shorter over-all lengths—much more compact and efficient in tight places. These sockets are great time savers on many hard-to-reach jobs—such as rear cylinder studs, motor base bolts, timing gear cover nuts and in all tight places where you have to work at an angle. Fitted with tension spring to hold socket at desired angle for easy application to the job.

Size of Openings in ins.	Flexible Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1/2	16	\$1.60	.722	7/8	2 1/4	5/16	1/4	5/16	...	5/16
9/16	18	1.60	.783	7/8	2 5/16	3/8	...	3/8	5/16	3/8
5/8	20	1.65	.875	7/8	2 5/16	7/16	...	7/16	3/8	7/16
1 1/16	22	1.75	.937	15/16	2 3/8	...	3/8	...	...	...
3/4	24	1.80	1.010	1 1/16	2 1/2	1/2	...	1/2	7/16	1/2

Snap-On Sockets Are Broached to Accurate Sizes

Master Sockets

1/2" Square Drive

Double Broached Hexagon Sockets

THESE are the old reliable, double broached, hexagon sockets . . . they have proved their quality through years of service in the kits of thousands of mechanics throughout all industries. Accurately broached and tapered to form as thin a wall as strength and durability will permit.



Size of Openings in ins.	Double Hexagon		Outside Diameter		Over-all L'gth.	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
7/16	DH-140	\$0.45	.609	7/8	1 1/2	1/4	...	1/4	1/4	1/4
1/2	DH-160	.45	.726	7/8	1 1/2	5/16	1/4	5/16	...	5/16
9/16	DH-180	.45	.800	7/8	1 1/2	3/8	...	3/8	5/16	3/8
19/32	DH-190	.45	.834	15/16	1 1/2	...	5/16	...	...	...
5/8	DH-200	.50	.873	1	1 1/2	7/16	...	7/16	3/8	7/16
11/16	DH-220	.50	.952	1 1/16	1 1/2	...	3/8	...	...	...
3/4	DH-240	.50	1.033	1 1/8	1 1/2	1/2	...	1/2	7/16	1/2
25/32	DH-250	.60	1.100	1 3/16	1 1/2	...	7/16	...	...	...
13/16	DH-260	.60	1.134	1 1/4	1 1/2	...	9/16	1/2	9/16	9/16
7/8	DH-280	.60	1.225	1 5/16	1 1/2	9/16	1/2	5/8	9/16	5/8
15/16	DH-300 1/2	.75	1.303	1 7/16	1 1/2	5/8	...	...	5/8	...
31/32	DH-310 1/2	.75	1.351	1 7/16	1 1/2	...	9/16	...	...	...
1	DH-320 1/2	.75	1.398	1 1/2	1 1/2	11/16	...	3/4	...	3/4



Extra Deep Hexagon Sockets

3 1/4" and 3 1/2" overall length, and just the answer to those nut-turning problems where the nuts are set down deeply over the bolt. Good for spark plugs, spring "U" bolts, etc.



S-1100 Deep Socket Set—contains all the sizes listed except S-250. Complete in 11-B Case \$12.25

S-500 Deep Socket Set—contains S-260, S-280, S-300 1/2, S-320 1/2, S-360 1/2. \$5.75

Size of Openings in ins.	Extra Deep Double Hex.		Outside Diameter		Over-all L'gth.	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
1/2	S-160	\$0.90	.731	7/8	3 1/4	5/16	1/4	5/16	...	5/16
9/16	S-180	.90	.800	7/8	3 1/4	3/8	...	3/8	5/16	3/8
5/8	S-200	.95	.875	7/8	3 1/4	7/16	...	7/16	3/8	7/16
11/16	S-220	.95	.937	15/16	3 1/4	...	3/8	...	...	...
3/4	S-240	.95	1.062	1 1/16	3 1/4	1/2	...	1/2	7/16	1/2
25/32	S-250	.95	1.062	1 1/16	3 1/4	...	7/16	...	...	...
13/16	S-260	1.00	1.062	1 1/16	3 1/4	...	9/16	1/2	9/16	9/16
7/8	S-280	1.05	1.187	1 3/16	3 1/2	9/16	1/2	5/8	9/16	5/8
15/16	S-300 1/2	1.15	1.250	1 1/4	3 1/2	5/8	...	...	5/8	...
1	S-320 1/2	1.20	1.312	1 5/16	3 1/2	11/16	...	3/4	...	3/4
1 1/16	S-340 1/2	1.35	1.437	1 7/16	3 1/2	3/4	5/8	...	...	...
1 1/8	S-360 1/2	1.35	1.500	1 1/2	3 1/2	...	...	7/8	3/4	7/8

There Is Only One Genuine Snap-On Line

Master Sockets

$\frac{1}{2}$ " Square Drive

Double Broached Square Sockets



ALL Snap-On Square Sockets are made with double broached or 8 point openings to provide greater working convenience where handle movement is limited. Electric furnace high carbon alloy tool steel . . . carefully heat-treated and hardened . . . glistening, rust-proof chromium finish.

No. 900 Set—9 sizes including all those listed below except No. 426 . . . \$5.40

Size of Openings in ins.	Double Sq. Sockets		Outside Diameter		Over-all L'gth	USS Sq. Nuts	USS Sq. Hd. Cap Sc.	USS Sq. Hd. Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nuts	Sq. Cap Sc.
$\frac{3}{8}$	412	\$0.50	.671	$\frac{7}{8}$	$1\frac{3}{8}$	.....	$\frac{1}{4}$	$\frac{3}{8}$	.....	.....
$\frac{7}{16}$	414	.50	.792	$1\frac{5}{16}$	$1\frac{3}{8}$	.....	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	416	.50	.875	$1\frac{5}{16}$	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	.....	$\frac{5}{16}$
$\frac{9}{16}$	418	.55	1.006	$1\frac{11}{16}$	$1\frac{3}{8}$	.....	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{5}{8}$	420	.55	1.062	$1\frac{11}{16}$	$1\frac{3}{8}$	.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{7}{16}$
$1\frac{1}{16}$	422	.60	1.156	$1\frac{1}{4}$	$1\frac{3}{8}$	$\frac{3}{8}$	$\frac{9}{16}$	.....	.....	.....
$\frac{3}{4}$	424	.60	1.250	$1\frac{5}{16}$	$1\frac{1}{2}$	.....	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{1}{2}$
$1\frac{3}{16}$	426	.65	1.375	$1\frac{7}{16}$	$1\frac{5}{8}$	.....	.....	.....	$\frac{1}{2}$	$\frac{9}{16}$
$\frac{7}{8}$	428	.75	1.503	$1\frac{9}{16}$	$1\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{8}$
1	432	.85	1.688	$1\frac{3}{4}$	$1\frac{3}{4}$	.....	.....	1	.....	$\frac{3}{4}$

Stud Removers

$\frac{1}{2}$ " Square Drive

A-50— $\frac{1}{4}$ " to $\frac{1}{2}$ " Capacity

SOMETHING new in stud remover design—operates on a gear principle for gripping—develops a tremendous gripping power which prevents slipping on the job. At the same time it will not lock on the job—quickly and easily releases as soon as pressure is released, in fact the tool can be used with a ratcheting action if desired.

It is small in size and shape and works in pretty close quarters. It has a bulldog grip—is built from a new steel alloy which gives exceptional strength, is compact and simple to use. The principle of construction is new—a real improvement in stud removers.

A-50 Stud Remover— $\frac{1}{4}$ " to $\frac{1}{2}$ " capacity. Each... \$2.25

A-50-A Housing—Each..... \$1.15

A-50-B Drive Gear—Each..... .55

A-50-C Gripping Rack—Each..... .55



A-36— $\frac{1}{2}$ " to $\frac{3}{4}$ " Capacity

DRIVING shank extends through both sides of housing, providing a bearing each side of gripper and preventing the tool from binding. The knurled gripping wheel is made of special alloy steel which works satisfactorily on soft or hardened studs, and locks on the driving shank by means of a spring backed ball.

A-36 Stud Remover— $\frac{1}{2}$ " to $\frac{3}{4}$ " capacity. Each \$2.50

A-36-A Housing—only. Each..... 1.30

A-35-B Shank..... .65

A-35-C Roller..... .55



Special Sockets for Spark Plug Adaptors

THESE socket wrenches fit the adaptors used for adapting 14 and 18 millimeter spark plugs to larger plug holes . . . remove or replace them easily and quickly.

A-14M—For 14 millimeter size. Each..... \$0.55

A-18M—For 18 millimeter size. Each..... .55



Snap-Ons Cost You Less in the Long Run

Ferret Handles

3/8" Square Drive

Reversible Ratchet



Stock No.	Square Drive	Head Thickness	Overall Length	Price
F-70N	3/8"	9/16"	6 15/16"	\$2.95

Ferret Sliding Tee



Stock No.	Square Drive	Handle Diameter	Handle Length	Head Depth	Price
F-5	3/8"	7/16"	8"	1 3/16"	\$0.85

Ferret Speed Tees



Stock No.	Sq. Drive	Shank		Handle Length	Price
		Diam.	Length		
F-3	3/8"	1/2"	12"	6 1/2"	\$1.20
F-19	3/8"	1/2"	24"	8"	1.95

Ferret Speeders

Stock No.	Square Drive	Overall Length	Sweep Radius	Price
F-4A	3/8"	17 3/8"	3 1/4"	\$1.25
F-4B	3/8"	24"	3 1/4"	1.45

Knob Handle for Speeders



A useful new addition for your Ferret Tool Set . . . this knob handle slips over the end of your Ferret Speeder Handle and gives you a comfortable hand grip for this tool. Made of hard black rubber, it fits the two Ferret Speeders listed above.

F-45-1. Ferret Knob Handle. Each . . . \$0.20

Ferret Speeder Tee Handle



Stock No.	Square Drive	Handle Diameter	Height	Overall Length	Price
FC-5	3/8"	7/16"	2 1/4"	6"	\$0.90

Ferret Nut Spinner



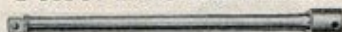
Stock No.	Square Drive	Head Diameter	Overall Length	Price
F-10A	3/8"	3/4"	8 1/2"	\$1.85

Every Type of Handle You Need

Ferret Handles and Sockets

$\frac{3}{8}$ " Square Drive

Ferret Extension Bars



Stock No.	Square Drive	Shank Length	Price
F-1	$\frac{3}{8}$ "	$1\frac{1}{2}$ "	\$0.45
F-2	$\frac{3}{8}$ "	3"	.65
F-6	$\frac{3}{8}$ "	6"	.80
F-9	$\frac{3}{8}$ "	8"	.95
F-11	$\frac{3}{8}$ "	12"	1.00
FX-20	$\frac{3}{8}$ "	20"	1.35

Ferret Universal Joint



Stock No.	Square Drive	Outside Diam.	Overall Length	Price
F-8	$\frac{3}{8}$ "	$\frac{3}{4}$ "	$1\frac{29}{32}$ "	\$1.45
F-80	$\frac{3}{8}$ "	$\frac{5}{8}$ "	$1\frac{33}{64}$ "	1.45

Not Guaranteed

Screw Driver Blades



A USEFUL Screw Driver Blade attachment that can be used with any Ferret $\frac{3}{8}$ " square drive handle.

Stock No.	Blade Tip Thickness	Blade Width	Overall Length	Price
F-23	$\frac{1}{16}$ "	$\frac{1}{4}$ "	3"	\$0.65
F-25	$\frac{1}{16}$ "	$1\frac{1}{16}$ "	$3\frac{7}{16}$ "	.65

Screw Driver Socket

F-21—For Chevrolet pan screws with F-4 Speeder. Also handy on other round, fillister and flat head screws. Special improved design, having a protecting collar with special spring action which prevents slipping. Not Guaranteed.



Stock No.	Blade		Overall Length	Price
	Width	Thickness		
F-21	$\frac{7}{16}$ "	.42	$1\frac{21}{32}$ "	\$0.85

Drag Link Adjuster



F-22A— $1\frac{1}{16}$ " blade for tightening slotted nuts on steering gear assembly, Ford shock absorbers and wherever slotted nuts are used. Use with Ferret handles.

Stock No.	Blade		Outside Diameter	Overall Length	Price
	Width	Thickness			
F-22A	$1\frac{1}{16}$ "	.116	$1\frac{1}{16}$ "	$1\frac{1}{4}$ "	\$0.45

Allen Head Socket Wrenches



Not Guaranteed

Stock No.	Square Drive	Wrench Size	Overall Length	Price
FH-6	$\frac{3}{8}$ "	$\frac{5}{16}$ "	$\frac{15}{16}$ "	\$0.30
FH-7	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{15}{16}$ "	.30
FH-8	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{15}{16}$ "	.30
FH-10	$\frac{3}{8}$ "	$\frac{5}{16}$ "	1"	.30
FH-12	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$1\frac{1}{16}$ "	.30
FH-14	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$1\frac{1}{4}$ "	.35

Get Those Close-In Nuts With Ferret Units

Ferret Sockets

$\frac{3}{8}$ " Square Drive

Double Broached Hexagon

FERRET sockets are especially designed to work in the hardest of the hard-to-reach places . . . within their range of sizes no other wrenches can equal them for convenience and speed. The illustration serves to show how extremely thin-walled and shallow Ferret sockets are. This exclusive Snap-on design makes quick, easy work of the many jobs in very cramped places on present day cars of compact design where no other type of wrench will reach.



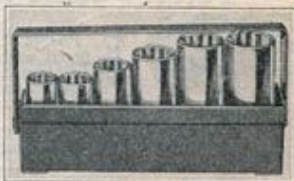
F-1900 Ferret Socket Set. Consisting of one each of the sockets listed below, except F-150, complete in No. 19-B Metal Case . . . **\$3.70**

Size of Openings in ins.	Double Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap. Sc.
$\frac{3}{8}$	F-120	\$0.40	.530	$\frac{5}{8}$	$\frac{27}{32}$	...	...	$\frac{3}{16}$	...	...
$\frac{7}{16}$	F-140	.40	.609	$\frac{5}{8}$	$\frac{27}{32}$	$\frac{1}{4}$	...	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{15}{32}$	F-150	.40	.656	$\frac{5}{8}$	$\frac{29}{32}$	...	...	$\frac{5}{16}$	...	...
$\frac{1}{2}$	F-160	.40	.687	$\frac{11}{16}$	$\frac{27}{32}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	...	$\frac{5}{16}$
$\frac{17}{32}$	F-170	.40	.750	$\frac{3}{4}$	$\frac{27}{32}$	...	...	...	...	...
$\frac{9}{16}$	F-180	.40	.750	$\frac{49}{64}$	$\frac{27}{32}$	$\frac{3}{8}$	...	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{19}{32}$	F-190	.40	.812	$\frac{13}{16}$	$\frac{27}{32}$	...	$\frac{5}{16}$	...	...	...
$\frac{5}{8}$	F-200	.40	.875	$\frac{7}{8}$	$\frac{27}{32}$	$\frac{7}{16}$	...	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
$\frac{11}{16}$	F-220	.45	.937	$\frac{15}{16}$	1	...	$\frac{3}{8}$	...	...	...
$\frac{3}{4}$	F-240	.45	1.000	1	1	$\frac{1}{2}$	...	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$



Extra Deep Double Hexagon

STRAIGHT, thin-walled, double broached hexagon sockets that can be used to very great advantage on running board channels, body and fender support bolts and many other jobs. **SF-600 Ferret Deep Socket Set.** Containing one each of the sockets listed below, except SF-190, in SF-6B Tray . . . **\$3.65**



Size of Openings in ins.	Double Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap Sc.
$\frac{7}{16}$	SF-140	\$0.50	.625	$\frac{5}{8}$	$\frac{13}{4}$	$\frac{1}{4}$	...	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	SF-160	.50	.687	$\frac{11}{16}$	$\frac{13}{4}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	...	$\frac{5}{16}$
$\frac{9}{16}$	SF-180	.60	.750	$\frac{3}{4}$	2	$\frac{3}{8}$	...	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{19}{32}$	SF-190	.60	.812	$\frac{25}{32}$	$\frac{21}{4}$	...	...	...	...	...
$\frac{5}{8}$	SF-200	.60	.875	$\frac{7}{8}$	$\frac{21}{4}$	$\frac{7}{16}$	...	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
$\frac{11}{16}$	SF-220	.70	.937	$\frac{15}{16}$	$\frac{21}{2}$	...	$\frac{3}{8}$	...	...	...
$\frac{3}{4}$	SF-240	.75	1.000	$\frac{31}{32}$	$\frac{21}{2}$	$\frac{1}{2}$	...	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$

Ferrets Solve Those Tricky Nut Turning Jobs



Ferret Sockets

3/8" Square Drive

Double Broached Square

FIVE popular sizes of square sockets made in standard Ferret shallow thin-walled type. Electric furnace high carbon steel gives these small sockets the "guts" to stand every day professional service.

Size of Openings in ins.	Double Square Sockets		Outside Diameter		Over-all L'gth	USS Sq. Nut	USS Sq. Hd. Cap. Sc.	USS Sq. Hd. Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nuts	Sq. Cap. Sc.
1/4	F-408	\$0.40	.474	5/8	27/32	...	...	1/4	...	...
5/16	F-410	.40	.562	5/8	27/32	...	...	5/16	...	...
3/8	F-412	.40	.647	11/16	27/32	...	1/4	3/8	...	...
7/16	F-414	.45	.750	3/4	1	...	5/16	7/16	1/4	1/4
1/2	F-416	.45	.875	7/8	1	1/4	3/8	1/2	...	5/16

Extra Deep Square Sockets

DESIGNED for easy work on such jobs as running board bolts, fender bolts, body bolts, etc., or wherever the bolts protrude through the nut.



Size of Openings in ins.	Double Square Sockets		Outside Diameter		Over-all L'gth	USS Sq. Nut	USS Sq. Hd. Cap. Sc.	USS Sq. Hd. Set Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Sq. Nuts	Sq. Cap. Sc.
7/16	SF-414	\$0.55	.755	13/16	1 1/2	...	5/16	7/16	1/4	1/4
1/2	SF-416	.55	.875	7/8	1 1/2	1/4	3/8	1/2	...	5/16
9/16	SF-418	.60	.960	1	1 1/2	...	7/16	9/16	5/16	3/8
5/8	SF-420	.60	1.062	1 1/16	1 1/2	...	1/2	5/8	3/8	7/16

Ferret Double Hexagon Flexockets

Trade Mark



EXTREMELY small overall measurements . . . fitted with tension spring to hold socket at desired angle for application to the job . . . free 90° swivel action.

Size of Openings in ins.	Flexible Hex. Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap. Sc.	American Standard	
	Stock No.	Price	Socket End	Drive End					Nuts	Cap. Sc.
3/8	F-12	\$1.45	.530	5/8	1 3/4	...	...	3/8	...	...
5/16	F-14	1.45	.609	5/8	1 3/4	1/4	...	5/16	1/4	1/4
1/2	F-16	1.45	.687	5/8	1 3/4	5/16	1/4	3/8	5/16	5/16
9/16	F-18	1.50	.750	11/16	1 3/4	3/8	...	5/8	5/8	5/8
5/8	F-20	1.50	.843	1 1/16	1 3/4	7/16	...	7/8	7/8	7/8
11/16	FU-22	1.65	.937	3/4	1 3/4	...	5/8	...	...	...
3/4	F-24	1.65	1.000	3/4	1 5/8	1/2	...	...	...	...

Ferret Screw Driver for Phillips Head Screws

Stock No.	Square Drive	Overall Length	Price
F-26	3/8"	2 3/8"	\$0.70
F-27	3/8"	2 3/8"	.70



Not Guaranteed

The Most Efficient Tools in Their Size Range

Midget Handles

$\frac{9}{32}$ " Square Drive

Midget Ratchet Wrench



Stock No.	Square Drive	Head Thickness	Overall Length	Price
M-70N	$\frac{9}{32}$ "	$\frac{3}{8}$ "	$4\frac{13}{32}$ "	\$1.95

Special Midget Ratchet with $\frac{1}{4}$ " Square Drive

Stock No.	Square Drive	Head Thickness	Overall Length	Price
GM-70N	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$4\frac{13}{32}$ "	\$1.95

Midget Sliding Tee



Stock No.	Square Drive	Head Depth	Handle Diam.	Handle Length	Price
M-5	$\frac{9}{32}$ "	$1\frac{13}{16}$ "	$\frac{5}{16}$ "	$4\frac{1}{2}$ "	\$0.50

Midget Extension Bars



Stock No.	Square Drive	Shank		Price
		Diam.	Length	
M-2	$\frac{9}{32}$ "	$\frac{1}{2}$ "	2"	\$0.40
M-60	$\frac{9}{32}$ "	$\frac{1}{2}$ "	6"	.55

Midget Speed Tee

Stock No.	Square Drive	Shank Length	Tee Width	Price
M-3	$\frac{9}{32}$ "	6"	$3\frac{5}{8}$ "	\$0.85

Midget Nut Spinner Handle

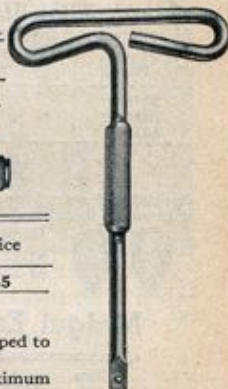


Stock No.	Square Drive	Head Diameter	Overall Length	Price
M-10CA	$\frac{9}{32}$ "	$\frac{9}{16}$ "	6"	\$1.45

Midget Ignition Handles

M-4 is fitted with a seasoned hardwood handle and shaped to give a good strong hand grip.

M-40 has an amber Pyralin handle to provide maximum insulation.



Stock No.	Square Drive	Shank Length	Overall Length	Price
M-4	$\frac{9}{32}$ "	$1\frac{7}{16}$ "	$5\frac{1}{8}$ "	\$0.70
M-40	$\frac{9}{32}$ "	$\frac{9}{32}$ "	$3\frac{13}{16}$ "	.90

Midget Units Were Pioneered by Snap-On

Midget Handles and Sockets

$\frac{9}{32}$ " Square Drive

Midget Universal Joint

INCREASES the utility of your Midget tools 100%. Fitted with tension spring which holds tool in desired position for application to the job ... Swivel action works freely at almost 90° angle.

Stock No.	Square Drive	Outside Diam.	Overall Length	Price
MU-8	$\frac{9}{32}$ "	$\frac{5}{8}$ "	1 $\frac{19}{32}$ "	\$1.20



Midget Adaptors



Stock No.	Handle End	Drive End	Outside Diam.	Overall Length	Price
M-1	$\frac{3}{8}$ "	$\frac{9}{32}$ "	$\frac{5}{8}$ "	1 $\frac{3}{4}$ "	\$0.40
A-3	$\frac{9}{32}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	.35

Screw Driver Socket (Not Guaranteed)

Stock No.	Blade		Outside Diam.	Overall Length	Price
	Width	Thickness			
M-21	$\frac{1}{4}$ "	.038	$\frac{1}{2}$ "	1"	\$0.35



Screw Driver Attachments (Not Guaranteed)



Stock No.	Square Drive	Blade		Outside Diam.	Overall Length	Price
		Width	Thickness			
M-24	$\frac{9}{32}$ "	$\frac{1}{4}$ "	.032	$\frac{1}{2}$ "	3 $\frac{3}{4}$ "	\$0.60
M-25	$\frac{9}{32}$ "	$\frac{3}{8}$ "	.042	$\frac{1}{2}$ "	3 $\frac{3}{4}$ "	.65
M-26	$\frac{9}{32}$ "	$\frac{3}{8}$ "	.032	$\frac{1}{2}$ "	3 $\frac{3}{4}$ "	.55

Allen Head Socket Wrenches

Stock No.	Square Drive	Wrench Size	Overall Length	Price
MH-3	$\frac{9}{32}$ "	$\frac{5}{16}$ "	$\frac{7}{8}$ "	\$0.25
MH-4	$\frac{9}{32}$ "	$\frac{3}{8}$ "	$\frac{7}{8}$ "	.25
MH-5	$\frac{9}{32}$ "	$\frac{7}{16}$ "	$\frac{7}{8}$ "	.25



Windshield Wiper Sockets

Specially designed oval sockets for servicing the oval-headed type screws commonly found on windshield wipers, etc. Don't ruin these tiny screws by using pliers on them ... Use these special sockets.



M-22— $\frac{1}{4}$ " x $\frac{3}{16}$ " Oval opening.	Each	\$0.25
M-23— $\frac{5}{16}$ " x $\frac{1}{8}$ " Oval opening.	Each	.25

Midget Extra Deep Hexagon Sockets



Size of Openings in Ins.	Hexagon Sockets		Outside Diameter		Overall L'gth	SAE	USS Nuts	USS Cap. Sc.	American Standard	
	Stock No.	Price	Soc't. End	Drive End					Nuts	Cap. Sc.
$\frac{7}{32}$	SM-7	\$0.45	.328	$\frac{1}{2}$	1 $\frac{7}{8}$					
$\frac{9}{32}$	SM-10	.45	.472	$\frac{1}{2}$	2		$\frac{3}{8}$	$\frac{3}{8}$		
11 $\frac{32}{32}$	SM-11	.45	.500	$\frac{1}{2}$	2					
$\frac{3}{8}$	SM-12	.45	.542	$\frac{5}{8}$	2		$\frac{7}{8}$	$\frac{7}{8}$		
$\frac{7}{16}$	SM-14	.50	.625	$\frac{5}{8}$	2	$\frac{1}{4}$		$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
15 $\frac{32}{32}$	SM-15	.50	.656	1 $\frac{1}{2}$	2					

Useful Wherever Small Nuts Must Be Turned

Midget Sockets

$\frac{9}{32}$ " Square Drive

ALL Midget Sockets are designed with straight, thin walls, permitting them to be used where the clearance space is extremely limited. Hexagon Sockets are broached with a single Hexagon opening and the Square with a double Square.



Single
Hexagon

Hexagon Sockets

Double
Square

Size of Openings in ins.	Hexagon Sockets		Outside Diameter		Over-all L'gth	SAE	USS Nuts	USS Cap Sc.	American Standard	
	Stock No.	Price	Soc't End	Drive End					Nuts	Cap Sc.
$\frac{3}{16}$	M-6	\$0.25	.313	$\frac{1}{2}$	$\frac{7}{8}$					
$\frac{7}{32}$	M-7	.25	.353	$\frac{1}{2}$	$\frac{7}{8}$					
$\frac{15}{64}$	MI-15	.25	.372	$\frac{1}{2}$	$\frac{7}{8}$					
$\frac{1}{4}$	M-8	.25	.388	$\frac{1}{2}$	$\frac{7}{8}$					
$\frac{17}{64}$	MI-17	.25	.414	$\frac{1}{2}$	$\frac{7}{8}$					
$\frac{9}{32}$	M-9	.25	.430	$\frac{1}{2}$	$\frac{7}{8}$					
$\frac{5}{16}$	M-10	.25	.472	$\frac{1}{2}$	$\frac{7}{8}$		$\frac{1}{8}$	$\frac{1}{8}$		
$\frac{11}{32}$	M-11	.25	.500	$\frac{1}{2}$	$\frac{7}{8}$					
$\frac{3}{8}$	M-12	.25	.542	$\frac{9}{16}$	$\frac{7}{8}$			$\frac{3}{16}$		
$\frac{7}{16}$	M-14	.25	.625	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{1}{4}$		$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

Double Broached Square

Size of Openings in ins.	Double Sq. Sockets		Outside Diameter		Over-all L'gth	USS sq. Nut	USS sq. Hd. Cap Sc.	USS sq. Hd. Set Sc.	American Standard	
	Stock No.	Price	Soc't End	Drive End					Sq. Nuts	Sq. Cap Sc.
$\frac{1}{4}$	M-408	\$0.25	.470	$\frac{1}{2}$	$\frac{7}{8}$			$\frac{1}{4}$		
$\frac{5}{16}$	M-410	.25	.562	$\frac{9}{16}$	$\frac{7}{8}$			$\frac{5}{16}$		

Carburetor Sockets

$\frac{9}{32}$ " Square Drive

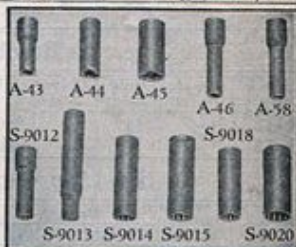
Special deep Sockets designed for adjusting carburetor jets, etc. Fit Midget Handles.

For Float Needle Valve Seats and High Speed Metering Jets

No.	Prong	Size of In- side	Out- side	Dia.	L'gth	Ea.
A-43	$\frac{5}{64} \times \frac{1}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	45c
A-44	$\frac{5}{64} \times \frac{3}{64}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{2}$	45c
A-45	$\frac{5}{64} \times \frac{1}{16}$	$\frac{1}{4}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	45c

A-46—Special Oval opening Socket for the jet on Stromberg carburetors on all cars except Ford. Each.....55c

A-58—Special Oval opening Socket for Stromberg Carburetor Jet on 1933-34 Ford V-8. Each.....55c



Deep Hexagon Carburetor Sockets

Stock No.	Size of Opening	Overall Length	Outside Diameter		Price
			Socket End	Drive End	
S-9012	$\frac{5}{16}$	$1\frac{3}{4}$	.420	$\frac{1}{2}$	\$0.45
S-9013	$\frac{9}{32}$	$2\frac{5}{8}$	.406	$\frac{1}{2}$	.45
S-9014	$1\frac{1}{32}$	2	.562	$\frac{9}{16}$	.45
S-9015	$\frac{7}{16}$	2	.625	$\frac{5}{8}$	.45
S-9018	$\frac{3}{8}$	$1\frac{3}{4}$	.525	$\frac{9}{16}$	.45
S-9020	$\frac{1}{2}$	$1\frac{3}{4}$	.672	$\frac{43}{64}$	.45

Tiny Tools for Quick Work on Tricky Jobs

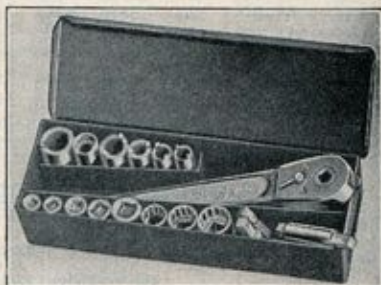
Refrigeration Service Set

9/32" Square Drive

THE installation and servicing of refrigeration equipment requires these especially designed tools, as well as a proper selection of standard wrenches and other small hand tools. Snap-on Packing Gland Nut Sockets and Valve Stem Sockets will save you time on every job, as well as protect the refrigeration equipment from being damaged. The Snap-on Refrigeration Set contains one each of all the items listed below and illustrated above, the R-6 Kerotest Valve Packing Nut Socket, and either the F-70A2 or R-7 Ratchet listed on page 39, together with F-140, F-160 and F-180 Ferret Sockets listed on page 33.

R-200B Refrigeration Set
with F-70A2 Ratchet in No. 14-B Metal Case.....\$9.90

R-100B Refrigeration Set
with R-7 Ratchet in No. 14-B Metal Case.....\$9.00



Extension Bar

Stock No.	Square Drive	Plug End	Drive End	Ext. Length	Adapts Above Ratchets to all	Price
R-1 1/2	9/32"	1/4"	9/32"	2 5/16"	Midget—9/32" Drive Units.....	\$0.40

Ratchet Plugs

Stock No.	Square Drive	Plug End	Drive End	Adapts above Ratchets to all	Price
R-12	9/32"	1/4"	3/8"	Ferret—3/8" Drive Units.....	\$0.35
R-13	9/32"	1/4"	9/32"	Midget—9/32" Drive Units.....	.35

Packing Gland Nut Sockets

Stock No.	Square Drive	Prong		Diameter		Overall Length	Price
		Depth	Width	Inside	Outside		
R-1	9/32"	3/32"	5/64"	5/16"	7/16"	1 1/2"	\$0.45
R-2	9/32"	3/32"	1/8"	21/64"	15/32"	1 1/2"	.45
R-3	9/32"	1/8"	1/8"	29/64"	11/16"	1 1/2"	.45
R-4	9/32"	3/32"	5/64"	9/16"	13/16"	1 1/2"	.50
R-5	9/32"	3/32"	7/64"	5/16"	9/16"	1 1/2"	.50

Square Valve Stem Sockets

Square Sockets			Outside Diameter		Overall Length	Price
Stock No.	Square Drive	Size	Socket End	Drive End		
R-406	9/32"	3/16"	.437"	1/2"	7/8"	\$0.25
R-407	9/32"	7/32"	.468"	1/2"	7/8"	.25
R-408	9/32"	1/4"	.532"	9/16"	7/8"	.25
R-410	9/32"	5/16"	.625"	5/8"	7/8"	.25
R-412	9/32"	3/8"	.687"	11/16"	7/8"	.25

Refrigeration Service Demands These Special Tools

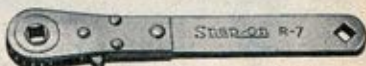
F-70A2 Ratchet



A strong, practical $\frac{1}{4}$ " Reversible Ratchet designed for work on valve stems. Handle end also has a $\frac{1}{4}$ " square wrench opening. The working parts are accurately machined and heat treated to give long satisfactory service . . . extremely useful in close quarters, it only requires a 20° handle movement. It's a quality tool throughout and the serviceman's favorite wrench. Each . . . **\$2.75**

R-7 Ratchet

DESIGNED for those who want a good $\frac{1}{4}$ " drive ratchet at low cost. Sturdy construction . . . free working reversible ratchet with standard $\frac{1}{4}$ " wrench opening machined in the end of the handle. Each . . . **\$1.85**



Midget $\frac{1}{4}$ " Drive Ratchet GM-70N



MIDGET reversible ratchet with $\frac{1}{4}$ " square plug. For use with any socket having $\frac{1}{4}$ "

square drive. Only $4\frac{13}{16}$ " overall length. Each . . . **\$1.95**

Special 4-in-1 Refrigeration Ratchet Wrench



FOUR wrenches in one—that's why it's so handy! Used for various sized valve stems, couplings, and general refrigeration service work. Ratcheting ends have $\frac{1}{4}$ " and $\frac{3}{8}$ " square openings. Tee-wrench openings are $\frac{1}{8}$ " square and $\frac{1}{2}$ " Hexagon.

B-3801 Ratchet Wrench . . . **\$2.25**

Kerotest Valve Packing Nut Socket

Stock No.	Oval Opening		Outside Diameter	Overall Length	Price
	Long	Wide			
R-6	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{5}{8}$ "	$1\frac{1}{2}$ "	\$0.65

Flare Nut Wrenches



THESE wrenches have a decided advantage over the ordinary end wrench for flare nut work . . . they cannot slip and injure

the soft metal nuts. The cut-away head allows space to pass the wrench over the tube or shaft and onto the nut. The design of the socket wall prevents spreading or slipping. Double broached hex openings provide maximum turning room in very close quarters. Made in all the following sizes.

No.	Size	Price	No.	Size	Price	No.	Size	Price
924	$\frac{3}{4}$ "	\$1.00	938	$1\frac{3}{16}$ "	\$1.25	946	$1\frac{7}{16}$ "	\$1.45
928	$\frac{7}{8}$ "	1.10	940	$1\frac{1}{4}$ "	1.25	948	$1\frac{1}{2}$ "	1.45
932	1"	1.10	942	$1\frac{5}{16}$ "	1.30	952	$1\frac{5}{8}$ "	1.50
934	$1\frac{1}{16}$ "	1.15	944	$1\frac{3}{8}$ "	1.40	956	$1\frac{3}{4}$ "	1.55
936	$1\frac{1}{8}$ "	1.25						

Tools That Cut Your Servicing Costs

Tube Cutter



is used for reaming the burrs off inside of tube after the cut has been made. You won't find a better tool anywhere for the job.

HERE'S a little tool that will end your tube cutting troubles. It cuts any copper, brass,

bronze or similar tubing from $\frac{1}{8}$ " to 1" diameter. The cutter wheel is made from exceptionally strong steel and the very thin edge cuts cleanly through the entire thickness of the tubing—you don't have to wrestle the tube apart. Cutter wheels can be replaced at nominal cost. The "V" blade

No. 27 Tubing Cutter \$1.75

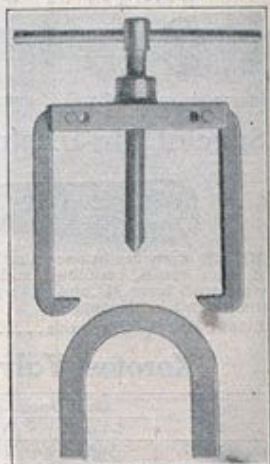
Drive Pulley Puller

This pulling tool has been developed expressly for pulling the Flywheel Drive Pulley on air conditioning and commercial refrigeration units. The horse shoe washer is dropped over the hub behind the wheel and used as a gripping surface for the puller arms.

B-3805 Puller Tool—complete with one B-3805-7— $2\frac{1}{2}$ " inside diameter washer. \$6.50

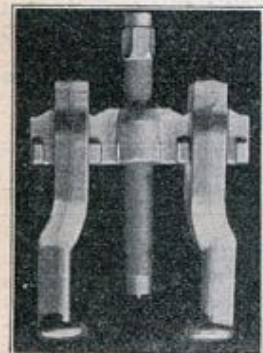
B-3805-6 Extra Washer— $3\frac{1}{8}$ " inside diameter.75

B-3805-7 Extra Washer— $2\frac{1}{2}$ " inside diameter.75



Gear Pulling Tool

A small, sturdy, general purpose Gear Puller designed for refrigeration and air conditioning service work. Useful for fly wheel drive pulley work, etc. Jaws can be spaced on the yoke to meet the particular requirements of the job.



CG-120-A Refrigeration Gear Puller \$3.35

CG-120-1 Screw Handle only.75

CG-120-2 2-way Yoke only. 1.00

CG-120-5 Set of two special Jaws only. 1.60

Spring Coil Tube Benders



Insert tube into the coil and bend by hand to the desired shape without causing tube to collapse.

B-3816— $\frac{1}{4}$ " Tube Bender... \$0.30

B-3817— $\frac{3}{8}$ " Tube Bender... .35

B-3808— $\frac{1}{2}$ " Tube Bender... .40

B-3819— $\frac{3}{4}$ " Tube Bender... .45

B-3809— $\frac{1}{2}$ " Tube Bender... \$0.50

B-3810— $\frac{3}{4}$ " Tube Bender... .55

B-3811— $\frac{1}{2}$ " Tube Bender... .60

Save Time With the Right Tool for Every Job

Double Offset Boxockets



Adjustable to all the work
that Boxockets can do

THESE tools embody all the advantages that Boxocket construction has to offer. Powerful leverage . . . Strength . . . Safety . . . Speed . . . Convenience. Each Boxocket of this type provides two different wrench sizes on one handle, and the complete series contains a full range of sizes ranging in sixteenths of an inch from $\frac{3}{16}$ " up to and including 1", without duplication of any size.

Long handles are provided which give plenty of leverage for breaking those tough nuts loose or for pulling them up tight. The wrench heads are placed at a deep offset from the handle to give clearance room from obstructions and to save the skin on your fingers. Blue-Point Boxockets can't slip off the nut and can't spread . . . double broaching permits their use where handle movement is

very limited . . . finest electric furnace, high carbon alloy tool steel is used in the manufacture of these tools . . . they look like jewelry but there's real power underneath that beautiful finish. Make sure the box wrench you buy is stamped "Blue-Point."

X-50 Set—Containing one each of X-1416, X-1820, X-2226, X-2428, and X-3032. Tools only . . . \$6.40

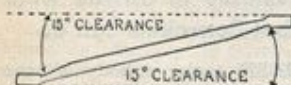
X-50K Set—The above set complete in C-61 Kit Bag . . . \$6.85

Size of Openings In Inches	Stock No.	Price	Width of Head	Over- all Length Inches	SAE	USS Nuts	USS Cap Sc.
$\frac{7}{16}$ & $\frac{1}{2}$	X-1416	\$0.95	.660 & .743	8 $\frac{11}{16}$	$\frac{1}{4}$ & $\frac{3}{16}$	$\frac{1}{4}$	$\frac{1}{4}$ & $\frac{3}{16}$
$\frac{1}{2}$ & $\frac{9}{16}$	X-1618	1.05	.743 & .826	9 $\frac{1}{2}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{16}$
$\frac{9}{16}$ & $\frac{5}{8}$	X-1820	1.10	.826 & .909	9 $\frac{3}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{4}$	$\frac{3}{4}$ & $\frac{7}{16}$
$\frac{11}{16}$ & $\frac{15}{16}$	X-2226	1.25	.992 & 1.158	11 $\frac{1}{2}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$
$\frac{3}{4}$ & 1	X-2428	1.40	1.075 & 1.241	12 $\frac{1}{2}$	1	1	1
$\frac{13}{16}$ & $1\frac{1}{16}$	X-3032	1.70	1.324 & 1.403	13 $\frac{1}{2}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$
$1\frac{1}{16}$ & $1\frac{1}{8}$	X-3436	2.25	1.541 & 1.625	15 $\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
$1\frac{1}{8}$ & $1\frac{1}{4}$	X-4044	2.95	1.790 & 1.956	17 $\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$
$1\frac{1}{4}$ & $1\frac{1}{2}$	X-4248	4.25	2.022 & 2.250	19 $\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$
$1\frac{1}{2}$ & $1\frac{3}{4}$	X-4652	4.25	2.078 & 2.306	20 $\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{3}{4}$

Combine Socket Strength With Direct Leverage

15° Angle Boxocket Wrenches

STRAIGHT handle Boxocket Wrenches with heads set at a 15° angle. The straight handle allows the wrench to be used in many corners where an offset would be awkward while the 15° angle head provides handle clearance from obstructions together with a long, direct pulling leverage.



This illustrates the type of all numbers, showing the 15° angle of clearance. Double broached hexagon openings, made of Electric Furnace tool steel, carefully heat-treated, chromium plated finish.

Size of Openings in inches	Stock No.	Price	Diameter of Head	Over-all Length	SAE	USS Nuts	USS Cap Sc.
3/16" & 1/8"	XD-1214	\$0.90	.570 & .660	8 1/2"	3/16" & 1/8"	3/16" & 1/8"	3/16" & 1/8"
1/2" & 9/16"	XD-1416	.95	.660 & .743	8 7/8"	1/2" & 9/16"	1/2" & 9/16"	1/2" & 9/16"
5/8" & 11/16"	XD-1618	1.00	.743 & .826	9 1/4"	5/8" & 11/16"	5/8" & 11/16"	5/8" & 11/16"
1" & 1 1/16"	XD-1820	1.05	.826 & .909	9 5/8"	1" & 1 1/16"	1" & 1 1/16"	1" & 1 1/16"
1 1/8" & 1 1/8"	XD-1922	1.10	.878 & .992	10"	1 1/8" & 1 1/8"	1 1/8" & 1 1/8"	1 1/8" & 1 1/8"
1 1/4" & 1 1/4"	XD-2022	1.10	.909 & .992	10 3/8"	1 1/4" & 1 1/4"	1 1/4" & 1 1/4"	1 1/4" & 1 1/4"
1 1/2" & 1 1/2"	XD-2024	1.15	.909 & 1.075	10 7/8"	1 1/2" & 1 1/2"	1 1/2" & 1 1/2"	1 1/2" & 1 1/2"
1 3/4" & 1 3/4"	XD-2224	1.25	.992 & 1.075	11 1/8"	1 3/4" & 1 3/4"	1 3/4" & 1 3/4"	1 3/4" & 1 3/4"
2" & 1 5/8"	XD-2526	1.30	1.127 & 1.158	11 3/4"	2" & 1 5/8"	2" & 1 5/8"	2" & 1 5/8"
2 1/8" & 2 1/8"	XD-2428	1.35	1.075 & 1.241	12 3/8"	2 1/8" & 2 1/8"	2 1/8" & 2 1/8"	2 1/8" & 2 1/8"
2 1/2" & 2 1/2"	XD-2830	1.50	1.241 & 1.324	12 11/16"	2 1/2" & 2 1/2"	2 1/2" & 2 1/2"	2 1/2" & 2 1/2"
2 3/4" & 2 3/4"	XD-3032	1.75	1.324 & 1.403	13 3/8"	2 3/4" & 2 3/4"	2 3/4" & 2 3/4"	2 3/4" & 2 3/4"
3" & 2 7/8"	XD-3034	1.85	1.324 & 1.541	14 1/2"	3" & 2 7/8"	3" & 2 7/8"	3" & 2 7/8"
3 1/2" & 3 1/2"	XD-3436	2.15	1.541 & 1.625	15 1/2"	3 1/2" & 3 1/2"	3 1/2" & 3 1/2"	3 1/2" & 3 1/2"
4" & 3 7/8"	XD-3440	2.15	1.541 & 1.790	16 1/4"	4" & 3 7/8"	4" & 3 7/8"	4" & 3 7/8"
4 1/2" & 4 1/2"	XD-3640	2.25	1.625 & 1.790	17"	4 1/2" & 4 1/2"	4 1/2" & 4 1/2"	4 1/2" & 4 1/2"



More Wrenches at Less Cost

While these wrenches have many other advantages, it is a fact that you have to buy less of them to get a complete range of sizes. Different size openings on each end make each handle do double duty.

XD Boxocket Sets

XD-6 Set—Consisting of the following six wrenches giving sizes from 3/16" up to 1" without duplication. Nos. XD-1416, XD-1820, XD-1922, XD-2526, XD-2428 and XD-3032. Tools only.....\$7.50

XD-6K Set—Above tools in No. C-61 leatherette kit.....\$7.95

XD-5 Set—Contains five popular wrench sizes 1/16" to 3/8". XD-1416, XD-1820, XD-1922, XD-2526 and XD-2428. Tools only.....\$5.75

XD-5K Set—Above tools in No. C-61 leatherette kit.....\$6.20

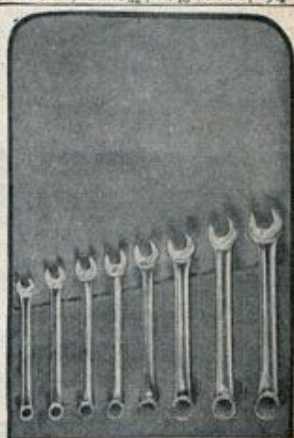
The Blue-Point Name Stands for Quality First

Short Handle Combination Open End Boxockets

Size of Openings, Both Ends	Stock No.	Price	Head Diameter		Over-all Length	SAE	USS Nuts	USS Cap Sc.
			Box End	Open End				
$\frac{3}{8}$	OEX-120	\$0.70	.500	.811	$5\frac{1}{8}$	....	....	$\frac{3}{16}$
$\frac{7}{16}$	OEX-140	.75	.608	.927	$5\frac{7}{16}$	$\frac{1}{4}$	....	$\frac{1}{4}$
$\frac{1}{2}$	OEX-160	.80	.695	1.050	$5\frac{23}{32}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$
$\frac{9}{16}$	OEX-180	.85	.782	1.168	6	$\frac{3}{8}$	....	$\frac{3}{8}$
$\frac{5}{8}$	OEX-200	.90	.865	1.281	$6\frac{5}{16}$	$\frac{7}{16}$	....	$\frac{7}{16}$
$\frac{11}{16}$	OEX-220	1.05	.950	1.396	$6\frac{19}{32}$	....	$\frac{3}{8}$	....
$\frac{3}{4}$	OEX-240	1.20	1.035	1.515	$6\frac{57}{64}$	$\frac{1}{2}$	....	$\frac{1}{2}$

Long Handle Combinations

Size of Openings, Both Ends	Stock No.	Price	Head Diameter		Over-all Length	SAE	USS Nuts	USS Cap Sc.
			Box End	Open End				
$\frac{1}{2}$	OEX-16	\$0.85	.743	1.050	$7\frac{5}{8}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$
$\frac{9}{16}$	OEX-18	.90	.813	1.168	$8\frac{5}{32}$	$\frac{3}{8}$	....	$\frac{3}{8}$
$\frac{5}{8}$	OEX-20	1.00	.893	1.281	$8\frac{11}{16}$	$\frac{7}{16}$	....	$\frac{7}{16}$
$\frac{11}{16}$	OEX-22	1.15	.983	1.396	$9\frac{13}{16}$	....	$\frac{3}{8}$	....
$\frac{3}{4}$	OEX-24	1.30	1.075	1.515	$10\frac{11}{32}$	$\frac{1}{2}$	....	$\frac{1}{2}$
$\frac{13}{16}$	OEX-26	1.35	1.165	1.634	$10\frac{11}{32}$	....	....	$\frac{9}{16}$
$\frac{7}{8}$	OEX-28	1.40	1.165	1.634	$10\frac{7}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{5}{8}$
$\frac{15}{16}$	OEX-30	1.60	1.343	1.876	$11\frac{7}{16}$	$\frac{5}{8}$	....	....
1	OEX-32	1.75	1.443	1.996	$11\frac{31}{32}$	$\frac{11}{16}$	....	$\frac{3}{4}$



Short Handle Combination Wrench Set

OEX-70 Set—Containing one each of the seven wrenches OEX-120 to OEX-240 listed above. Tools only.....\$6.25
 OEX-70-K Set—Above set in C-70 Kit Bag.....\$6.60

Long Handle Combination Wrench Set

OEX-8 Set—Containing one each of eight wrenches OEX-16 to OEX-32 listed above with exception of OEX-26. . . . A mighty useful wrench set for any mechanic, a complete range of Boxockets and a complete range of Open Ends for the price of one. Tools only.....\$ 9.95
 OEX-8-K Set—Above set in C-82 Kit Bag.....10.55

Look for the Name "Blue-Point" on the Handle

Dwarf Boxocket Wrenches

Trade Mark

AN old friend all dolled up with a new suit . . . in other words, these wrenches have been redesigned to give additional strength and are now fully chrome plated and full polished. A popular wrench especially useful for close up work, each end has a different opening and is offset, as illustrated, to clear obstructions. Every unit has a combination of generally used sizes, and each has a definite place in every mechanic's kit. Buy a complete set—it is the wisest plan.



Size of Openings in inches	Stock No.	Price	Diameter of Head	Over-all Length	SAE	USS Nuts	USS Cap Sc.
$\frac{5}{8}$ & $\frac{7}{16}$	XS-1214	\$0.75	.516 & .610	4 $\frac{13}{16}$	$\frac{1}{4}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$
$\frac{7}{8}$ & $\frac{3}{4}$	XS-1416	.80	.610 & .703	5 $\frac{1}{4}$	$\frac{3}{4}$ & $\frac{5}{8}$	.....	$\frac{1}{4}$ & $\frac{5}{16}$
$\frac{1}{2}$ & $\frac{9}{16}$	XS-1618	.85	.703 & .781	5 $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$
$\frac{9}{16}$ & $\frac{5}{8}$	XS-1820	.90	.781 & .875	5 $\frac{15}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$
$\frac{5}{8}$ & $\frac{3}{4}$	XS-2024	1.05	.875 & 1.031	6 $\frac{3}{8}$	$\frac{7}{8}$ & $\frac{1}{2}$	.....	$\frac{7}{16}$ & $\frac{1}{2}$
$\frac{11}{16}$ & $\frac{1}{2}$	XS-2226	1.25	.950 & 1.127	6 $\frac{1}{2}$	.....	$\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$

Dwarf Set in Kit Bag

XS-5 Set

These five wrenches give you the most practical assortment of Dwarf Boxockets with a range of sizes $\frac{3}{8}$ " to $\frac{3}{4}$ ". They will take the majority of jobs on which this type wrench can be used.

XS-5 Set—Contains the following tools:

XS-1214, XS-1416, XS-1618, XS-1820 and XS-2024. Tools only.....\$4.35

XS-5K Set—Above tools in No. C-50 Kit Bag.....\$4.60

XS-3 Set

This set gives you the six wrench sizes most generally needed for automotive service work . . . without duplication of sizes . . . on three handles. An ideal kit for every mechanic to own. Includes XS-1214, XS-1618, and XS-2024.

XS-3 Set—Tools only.....\$2.65

XS-3-K Set—above tools in C-50 kit bag.....\$2.90



Half Moon Boxocket Wrench

This special design Boxocket Wrench is an ideal tool for use in getting at those hidden, around the corner, tough-to-get-at nuts, such as starter nuts, manifold nuts, exhaust flange union nuts, carburetor flange nuts, etc.



CX-1820

Opening Sizes $\frac{5}{8}$ " and $\frac{3}{4}$ "

CX-2224

Opening Sizes $\frac{11}{16}$ " and $\frac{3}{4}$ "

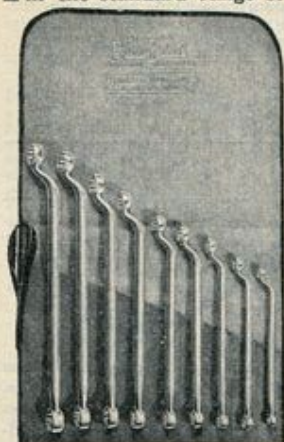
CX-1820 Boxocket with $\frac{5}{8}$ " and $\frac{3}{4}$ " opening sizes. Each...\$1.25

CX-2224 Boxocket with $\frac{11}{16}$ " and $\frac{3}{4}$ " opening sizes. Each...\$1.35

Your Mail Orders Will Receive Prompt Attention

Offset Boxocket Wrenches

THESE wrenches have the same size opening at each end and, in the standard range of sizes, are the best wrenches for all round work. They are light and at the same time give a long leverage for the heavy pull. Their big advantage is that they are adaptable to all the work that Boxockets can do.



No. X-9 Set—Consisting of nine Boxocket wrenches X-14 to X-30, shown above. Tools only . . . \$11.90

No. X-9K Set—Above set in No. C-90 leatherette kit . . . \$12.60

No. X-7 Set—Consisting of seven popular sizes of Boxocket wrenches, Nos. X-14, X-16, X-18, X-20, X-22, X-24 and X-28. Tools only . . . \$8.65

No. X-7K Set—Above set in No. C-90 leatherette kit . . . \$9.35

Size of Openings in ins.	Stock No.	Price	Depth of Head	Height of Offset	Overall Length	SAE	USS Nuts	USS Cap Sc.	American Standard	
									Nuts	Cap Sc.
$\frac{7}{16}$	X-14	\$1.00	$\frac{5}{16}$	$1\frac{1}{16}$	$9\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	X-16	1.05	$\frac{5}{16}$	$\frac{3}{4}$	$9\frac{15}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{9}{16}$	X-18	1.10	$\frac{11}{32}$	$\frac{13}{16}$	$10\frac{5}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{5}{8}$	X-20	1.20	$\frac{7}{16}$	$\frac{7}{8}$	$11\frac{1}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$
$1\frac{1}{16}$	X-22	1.30	$\frac{7}{16}$	$1\frac{1}{16}$	$12\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{4}$	X-24	1.45	$1\frac{1}{32}$	1	$13\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$1\frac{1}{8}$	X-26	1.50	1	1	$14\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$1\frac{1}{4}$	X-28	1.55	$\frac{3}{4}$	$1\frac{1}{16}$	$15\frac{3}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$
$1\frac{1}{2}$	X-30	1.75	$\frac{3}{4}$	$1\frac{1}{2}$	$16\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$

Midget Boxocket Wrenches



A series of four Midget Boxocket Wrenches designed for ignition and carburetor work, radio and all other small nut turning jobs. They are just the ideal units for these small jobs, being made with both ends offset to clear small obstructions and broached accurately to size to fit these tiny nuts perfectly.

XI-4—Set containing one each of the above Tools. Tools only \$2.40

XI-4K—Set (Above set in C-41 Kit Bag) . . . 2.65

Size of Openings in Inches	Stock No.	Price	Head Diameter in Inches	Depth of Head	Overall Length	USS Nuts	USS Cap Sc.
$\frac{3}{16}$ and $\frac{15}{64}$	XI-1213	\$0.60	$\frac{5}{16}$ and $2\frac{1}{4}$	$\frac{9}{64}$	$2\frac{15}{16}$	.....	.....
$\frac{7}{32}$ and $\frac{15}{64}$	XI-1415	.60	$\frac{33}{64}$ and $\frac{3}{8}$	$\frac{5}{32}$	$3\frac{3}{32}$	.....	.....
$\frac{1}{4}$ and $\frac{9}{32}$	XI-1618	.60	$\frac{25}{64}$ and $\frac{7}{16}$	$\frac{11}{64}$	$3\frac{3}{8}$	.....	.....
$\frac{5}{16}$ and $1\frac{1}{32}$	XI-2022	.60	$\frac{15}{32}$ and $\frac{1}{2}$	$\frac{3}{16}$	$3\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$

Boxocket Wrenches Are Safety-First Tools

Curved Boxocket Wrenches

SOMETHING new in Boxocket Wrench design. The heads are set at a 15° angle from the handle to provide handle and finger clearance space, while the curve is set at a 30° angle to give ample room for working around obstructions. Each Wrench provides four different working positions for one size opening. Just the tool for all hidden, hard-to-get-at nuts.

Size of Openings in Inches	Stock No.	Price	Diameter of Head	Overall Length	SAE	USS Nuts	USS Cap. Sc.
1/2"	XA-16	\$1.15	.743	7	5/16	3/4	5/16
5/8"	XA-18	1.25	.826	7 1/2	3/8	.....	3/8
3/4"	XA-20	1.35	.909	8 1/2	7/16	.....	7/16



We offer these wrenches in three sizes to take the three most generally used sizes of nuts and bolts. You can get at a majority of those around-the-corner nuts that are difficult to reach with a standard type tool. Very efficient on starters, manifolds, carburetor and exhaust flange nuts, etc.

XA-3 Set—Consisting of the above three tools \$3.75

XA-3K Set—The above set in C-31 Kit Bag. 4.05

Ratcheting Boxocket Wrenches



CONVENIENT and handy for use on manifold nuts, exhaust flange nuts, body bolts, and many other jobs requiring these sizes. Very free working ratchet action and strong construction.

Size of Openings in Inches	Stock No.	Price	Wrench Thickness	Overall Length	SAE	USS Nuts	USS Cap. Sc.
1/2" & 5/8"	75	\$1.95	.406	6 11/16	5/16 & 3/8	1/2	5/16 & 3/8
5/8" & 1 1/8"	76	2.00	.468	7 7/8	7/16 & 1/2	3/4	7/16 & 1/2
3/4" & 1 1/4"	79	2.30	.500	8 15/16	1/2 & 5/8	1 1/2	1/2 & 5/8

Hammer Head Boxocket



HANDIEST little wrench made for numerous tight places around motors—starters, carburetors, generators, distributors, manifolds, filters, strainers, air cleaners, timing gear covers, etc. Also brake and battery work. Handle is insulated for protection of tool in case of contact with live switch or wire.

F-1820—5/16" and 5/8". Each.....\$1.15

Efficiency Plus—Wrenches of Increasing Popularity

Heavy Duty Boxockets

LONGER leverage—lighter—stronger—easier to use in tight places than any other wrenches made for heavy nut turning operations. Safety

first tools—once on the nut they cannot slip off—spread—or turn on the nut. Forty-six Box-socket wrench heads, with short round shanks, are made to fit on tubular handles of different lengths.

By a special locking device the wrench heads are easily interchanged on the handles. Both straight and offset styles are furnished in the same range of sizes. Forged from high carbon Chrome Vanadium tool steel, carefully heat treated. Meet big demand as standard stock tools and take the place of numerous, costly, hand made special wrenches.



Heavy Duty Boxsocket Sizes

Size of Opening In Inches	Head Thickness	Head Diam.	For Handle No.	Straight Boxockets		Offset Boxockets		
				No.	Price	No.	Height of Offset	Price
$1\frac{1}{8}$	$\frac{5}{8}$	1.500	15	130	\$1.60	230	$1\frac{1}{8}$	\$1.75
1	$1\frac{1}{8}$	1.587	15	132	1.60	232	$1\frac{1}{8}$	1.75
$1\frac{1}{16}$	$\frac{3}{4}$	1.668	18	134	1.85	234	$1\frac{1}{16}$	2.10
$1\frac{1}{4}$	$2\frac{1}{16}$	1.750	18	136	1.85	236	$1\frac{1}{4}$	2.10
$1\frac{3}{4}$	$2\frac{1}{2}$	1.921	18	140	2.00	240	$1\frac{3}{4}$	2.25
$1\frac{1}{16}$	$\frac{7}{8}$	2.003	24	142	2.25	242	$1\frac{1}{16}$	2.50
$1\frac{1}{4}$	$2\frac{1}{16}$	2.086	24	144	2.90	244	$1\frac{1}{4}$	3.50
$1\frac{1}{8}$	$1\frac{1}{16}$	2.167	24	146	2.90	246	$1\frac{1}{8}$	3.50
$1\frac{1}{2}$	$2\frac{1}{8}$	2.257	24	148	3.50	248	$1\frac{1}{2}$	3.75
$1\frac{5}{8}$	1	2.338	24	150	3.50	250	$1\frac{5}{8}$	3.75
$1\frac{3}{8}$	$1\frac{1}{2}$	2.421	24	152	3.65	252	$2\frac{1}{8}$	4.35
$1\frac{3}{4}$	$1\frac{3}{16}$	2.593	30	156	3.80	256	$2\frac{3}{8}$	4.55
$1\frac{13}{16}$	$1\frac{1}{4}$	2.674	30	158	3.90	258	$2\frac{1}{2}$	4.80
$1\frac{7}{8}$	$1\frac{5}{16}$	2.757	30	160	4.75	260	$2\frac{3}{4}$	5.50
2	$1\frac{3}{8}$	2.928	30	164	4.75	264	$2\frac{1}{2}$	5.50
$2\frac{1}{8}$	$1\frac{1}{2}$	3.174	30	170	5.70	270	$2\frac{1}{2}$	6.30
$2\frac{1}{4}$	$1\frac{11}{16}$	3.257	36	172	6.00	272	$2\frac{1}{4}$	6.75
$2\frac{3}{8}$	$1\frac{13}{16}$	3.421	36	176	6.75	276	$2\frac{3}{4}$	7.50
$2\frac{1}{2}$	$1\frac{1}{2}$	3.674	36	182	8.75	282	$2\frac{1}{2}$	9.50
$2\frac{3}{4}$	$1\frac{1}{2}$	3.674	36	184	9.25	284	$2\frac{3}{4}$	10.00
$2\frac{5}{8}$	$1\frac{15}{16}$	3.922	36	188	9.50	288	$2\frac{5}{8}$	10.25
$2\frac{11}{16}$	$1\frac{11}{16}$	4.171	36	194	10.00	294	$2\frac{1}{2}$	10.75
$3\frac{1}{8}$	$1\frac{21}{16}$	4.417	36	1100	10.50	2100	$2\frac{1}{2}$	11.25

Tubular Handles

For Use on All Above Wrenches

Handle No.	Handle Length	Length Overall Assembled	Outside Diameter	Inside Diameter	Price Each
15	15"	23"	$1\frac{1}{8}$ "	$\frac{5}{8}$ "	\$1.50
18	18"	24"	$1\frac{1}{4}$ "	$1\frac{1}{8}$ "	1.60
24	24"	35"	$1\frac{1}{2}$ "	$1\frac{1}{4}$ "	2.25
30	30"	41"	$1\frac{3}{4}$ "	1"	3.25
36	36"	52 $\frac{1}{2}$ "	$1\frac{7}{8}$ "	$1\frac{1}{2}$ "	5.00

The Strongest Type of Wrench Ever Invented

"Blue-Point Supreme" Tappet Wrenches

THE most outstanding development in recent years in tappet wrench design and construction. Jaws are much narrower and heads thinner, and yet these tools are stronger than ever before. Note in the illustration the small, pear shaped heads which get into those close quarters around the tappet adjusting

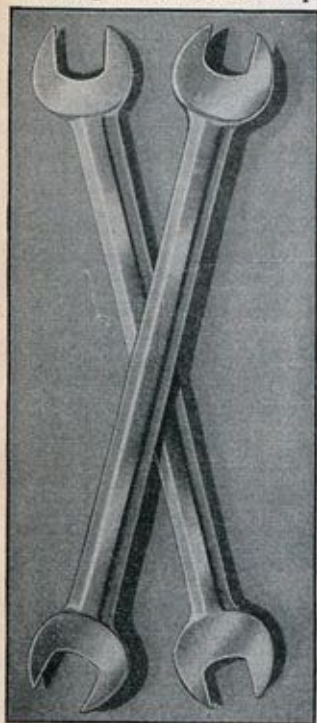
screws, tappets and lock nuts. Also the long, slender handles of modern design which allow the mechanic to work clear of the hot motor and provide easy operation. The angle on one end enables the use of these tools in otherwise inaccessible places.

Many Outstanding Improvements

1. The secret of these new units is the steel used in their construction. Briefly, it is a special high carbon, electric furnace alloy steel developed expressly for this purpose and possessing degrees of strength not obtainable in any other wrench of similar size and design.
2. Thinner Head design, needed on modern engines.
3. Narrower Jaws for easier work in close places.
4. Lighter Weight and Better Balance. Usually two wrenches are worked like scissors in one hand and a third is used in the other hand, and these features provide easier operation.
5. Modernized design with Lustrous Chrome Plate finish. There isn't a wrench on the market that can compare with them for utility or appearance.

Designed in Pairs

These units are made in pairs with two different sizes on each wrench and a straight and offset end in each size. This makes it very convenient to locate the size and style of wrench required for each job and makes two openings of the same size available at any time. They are the most practical, strongest, and best looking Wrenches ever offered for tappet work.



Stock Number	Size of Opening		Thickness of Head	Overall Length	Price
	Straight End	Angle End			
ST-1416	$\frac{7}{16}"$	$\frac{1}{2}"$	.156"	$7\frac{15}{16}"$	\$0.85
ST-1614	$\frac{1}{2}"$	$\frac{7}{16}"$			
ST-1618	$\frac{1}{2}"$	$\frac{9}{16}"$	.170"	$8\frac{1}{16}"$	.85
ST-1816	$\frac{9}{16}"$	$\frac{1}{2}"$			
ST-1820	$\frac{9}{16}"$	$\frac{5}{8}"$	.180"	$8\frac{1}{8}"$	.85
ST-2018	$\frac{5}{8}"$	$\frac{9}{16}"$			
ST-2022	$\frac{5}{8}"$	$1\frac{1}{16}"$	.185"	$8\frac{1}{4}"$	.95
ST-2220	$1\frac{1}{16}"$	$\frac{5}{8}"$			
ST-2428	$\frac{3}{4}"$	$\frac{7}{8}"$	.200"	$8\frac{1}{2}"$	1.05
ST-2824	$\frac{7}{8}"$	$\frac{3}{4}"$			

Modern Design and Top Notch Quality Combined

"Blue-Point Supreme" Tappet Wrench Sets

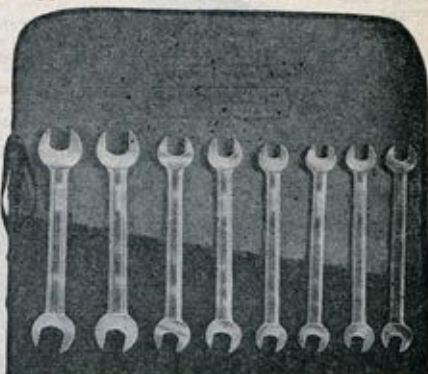
COMPRISING selections of the Blue-Point "Supreme" Tappet Wrenches described on the opposite page. The balanced design of these wrenches brings convenience and speed to your tappet adjusting operations . . . you can comfortably make use of three of these wrenches at one time—two may be worked with a scissors movement in one hand and a third wrench in the other hand. The long handles give you plenty of leverage and also keeps your fingers away from the hot motor.

As thin as a rapier and as finely tempered . . . Blue-Point "Supreme"—the mechanics' "old faithful." Without any hesitation we offer these sets as the finest Tappet Wrench Sets ever developed.

ST-6 Set

A practical set of the six most needed sizes, consisting of the following tools.

Number	Openings
ST-1618	$\frac{1}{2}$ " & $\frac{3}{16}$ "
ST-1816	$\frac{3}{16}$ " & $\frac{1}{2}$ "
ST-2022	$\frac{5}{8}$ " & $1\frac{1}{16}$ "
ST-2220	$1\frac{1}{16}$ " & $\frac{5}{8}$ "
ST-2428	$\frac{3}{4}$ " & $\frac{3}{8}$ "
ST-2824	$\frac{3}{8}$ " & $\frac{3}{4}$ "
ST-6 Set—Tools only	\$5.70
ST-6K Set—Above tools in No. C-62 Leather Kit Bag	\$6.15



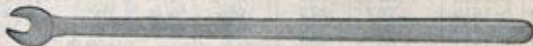
ST-8 Set

This set is complete and will service almost every make and model of passenger car and truck. It contains the following eight wrenches.

Numbers	Openings	
ST-1416 and ST-1614	$\frac{1}{2}$ " & $\frac{1}{2}$ "	
ST-1618 and ST-1816	$\frac{1}{2}$ " & $\frac{3}{4}$ "	
ST-2022 and ST-2220	$\frac{5}{8}$ " & $1\frac{1}{16}$ "	
ST-2428 and ST-2824	$\frac{3}{4}$ " & $\frac{3}{8}$ "	
ST-8 Set—Tools only		\$ 7.40
ST-8K Set—Above tools in No. C-80 Leatherette Kit Bag		7.85

Long Tappet Wrenches

A single end type of Tappet Wrench with exceptionally long, flat handles. These wrenches are mighty fine for adjusting work when there are hot manifolds to work around. Note the tapered shape of the handle which provides a better hand grip.



No.	Opening	Head Thickness	Length	Price
LT-16	$\frac{1}{2}$ "	$\frac{1}{16}$ "	15"	\$0.85
LT-18	$\frac{3}{8}$ "	$\frac{1}{16}$ "	15"	.85
LT-20	$\frac{5}{8}$ "	$\frac{1}{16}$ "	15"	.85
*CT-12	$\frac{3}{4}$ "	$\frac{3}{16}$ "	12"	1.25

*Note: The CT-12 is especially needed for 1937 Chrysler and De Soto cars.

Designed Correctly for Tappet Adjusting Work

"Blue-Point Supreme" Open End Wrenches

An Outstanding Wrench Development

BLUE-Point "Supreme" Open End Wrenches have been made possible by the development of a new alloy, high carbon, electric furnace steel, possessing qualities of strength, toughness, and fatigue resistance under the strain of hard usage that is not obtainable in any other wrenches of comparable design and weight.

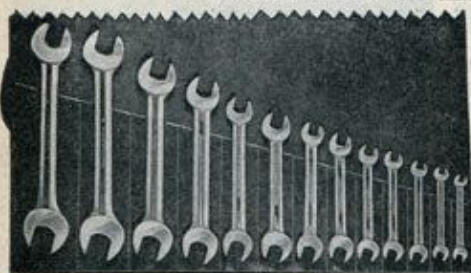


Many Big Improvements

The use of this steel enables us to build lighter wrenches with thinner heads and narrower jaws, and yet, stronger than end wrenches were ever made before.
Thinner head design . . . Narrower jaws . . . Greater strength . . . Lighter Weight . . . Modern chrome finish . . . Balanced design . . . Non-slip handle . . . Advantages which can be found so completely in only one wrench series —Blue-Point "Supreme." Buy the wrench with this name and know what real tool satisfaction is.

BPS-13 Set

A new set of 13 wrenches including the following tools:
S-1012, S-1214, S-1416, S-1618, S-1820, S-1922, S-2024, S-2526, S-2428, S-3032, S-3436, S-3640 and S-4652 . . . a complete range of openings from $\frac{1}{8}$ " to $1\frac{1}{2}$ " inclusive that will handle S.A.E. bolts $\frac{1}{4}$ " to $1\frac{1}{8}$ ".



BPS-13 Set—Tools Only	\$17.90
BPS-13K Set—Above 13 wrenches in C-130 Kit Bag	18.80
BPS-10 Set—Contains S-1214, S-1416, S-1618, S-1820, S-1922, S-2024, S-2526, S-2428, S-3032, and S-3436. Tools Only	\$11.05
BPS-10K Set—Above 10 wrenches in C-101 Kit Bag	11.85
BPS-8 Set—Contains S-1214, S-1416, S-1618, S-1820, S-1922, S-2024, S-2526 and S-2428. Tools Only	\$7.45
BPS-8K Set—Above 8 wrenches in C-80 Kit Bag	7.90

Size of Openings in Inches	Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap Sc.
$\frac{5}{16}$ & $\frac{3}{8}$	S-1012	\$0.50	.180	4 $\frac{3}{4}$		$\frac{1}{8}$	$\frac{1}{8}$ & $\frac{3}{16}$
$\frac{3}{8}$ & $\frac{1}{2}$	S-1214	.55	.190	5 $\frac{1}{8}$			$\frac{3}{8}$ & $\frac{1}{2}$
$\frac{1}{2}$ & $\frac{5}{8}$	S-1416	.60	.210	5 $\frac{11}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$
$\frac{5}{8}$ & $\frac{3}{4}$	S-1618	.70	.225	6 $\frac{1}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$
$\frac{3}{4}$ & $\frac{7}{8}$	S-1820	.90	.270	6 $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{7}{8}$	$\frac{7}{8}$	$\frac{3}{8}$ & $\frac{7}{8}$
$\frac{7}{8}$ & 1	S-1922	1.00	.290	7 $\frac{1}{4}$		$\frac{5}{8}$ & $\frac{3}{4}$	
1 & $1\frac{1}{8}$	S-2022	1.00	.300	7 $\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$ & 1
$1\frac{1}{8}$ & $1\frac{1}{4}$	S-2024	1.00	.310	7 $\frac{11}{16}$	$\frac{7}{8}$ & $1\frac{1}{8}$		$\frac{7}{8}$ & $1\frac{1}{8}$
$1\frac{1}{4}$ & $1\frac{1}{2}$	S-2224	1.00	.320	8 $\frac{1}{8}$	1 & $1\frac{1}{8}$	$\frac{5}{8}$	1 & $1\frac{1}{8}$
$1\frac{1}{2}$ & $1\frac{3}{4}$	S-2526	1.35	.330	8 $\frac{1}{2}$		$\frac{3}{2}$	$1\frac{1}{2}$ & $1\frac{3}{4}$
$1\frac{3}{4}$ & 2	S-2428	1.35	.360	9	$1\frac{3}{4}$ & 2	$\frac{3}{2}$	$1\frac{3}{4}$ & 2
2 & $2\frac{1}{8}$	S-3032	1.60	.400	10 $\frac{1}{2}$	2 & $2\frac{1}{8}$		2 & $2\frac{1}{8}$
$2\frac{1}{8}$ & $2\frac{1}{4}$	S-3436	2.00	.450	11 $\frac{1}{2}$	$2\frac{1}{8}$ & $2\frac{1}{4}$	$\frac{3}{4}$	$2\frac{1}{8}$ & $2\frac{1}{4}$
$2\frac{1}{4}$ & $2\frac{1}{2}$	S-3440	2.35	.500	13	$2\frac{1}{4}$ & $2\frac{1}{2}$	$\frac{3}{4}$ & $\frac{3}{4}$	$2\frac{1}{4}$ & $2\frac{1}{2}$
$2\frac{1}{2}$ & $2\frac{3}{4}$	S-3640	2.35	.500	15	$2\frac{1}{2}$ & $2\frac{3}{4}$	$\frac{3}{4}$ & $\frac{3}{4}$	$2\frac{1}{2}$ & $2\frac{3}{4}$
$2\frac{3}{4}$ & 3	S-4652	4.00	.550	15	$2\frac{3}{4}$ & 3	$\frac{3}{4}$ & 1	$2\frac{3}{4}$ & 3

The Latest Achievement in End Wrench Quality

Blue-Point Open Ends

FOR many years these standard Blue-Point Open End Wrenches have been the choice of many of our largest industries for production and maintenance work, and they are recommended by professional mechanics everywhere for long, reliable, every day service.



Blue-Point Open Ends fit comfortably in your hands... handles are flat with rounded edges that are easy on the hands. Also, even in the smaller sizes, the handles are long enough to give a good firm grip and plenty of leverage. Note the pear shaped jaws, correctly designed for greatest efficiency in operation. Milled .005 oversize for a neat fit that will not slip off the nut on a hard pull. You can't beat a Blue-Point Open End Wrench for an all around basic tool.

Blue-Point Open End Wrenches never spread or open in the jaws. A wrench that has spread is a dangerous tool to have around and a menace to your fingers every time you use it.

BPR-8—One each of eight popular wrenches, Nos. 1214, 1416, 1618, 1820, 1922, 2024, 2526, and 2428. Wrenches only.....\$6.70

BPR-8-K—Complete set in No. C-80 kit bag.....\$7.15



BPR-6—One each of six wrenches giving 12 sizes from $\frac{3}{8}$ " to 1" without duplications. Nos. 1214, 1618, 1922, 2024, 2526, and 2832. Wrenches only.....\$5.55

BPR-6-K—Complete set in No. C-62 kit bag.....\$6.00



Size of Openings in Inches	Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap Sc.
$\frac{3}{8}$ & $\frac{7}{16}$	1214	\$0.50	.205	4 $\frac{3}{4}$	..... $\frac{1}{4}$	.....	$\frac{3}{16}$ & $\frac{5}{16}$
$\frac{7}{16}$ & $\frac{1}{2}$	1416	.55	.225	5 $\frac{3}{8}$	$\frac{1}{4}$ & $\frac{5}{16}$	..... $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$
$\frac{1}{2}$ & $\frac{9}{16}$	1618	.65	.250	6 $\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$
$\frac{9}{16}$ & $\frac{5}{8}$	1820	.80	.300	6 $\frac{15}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$
1 $\frac{1}{2}$ & $\frac{11}{16}$	1922	.90	.315	7 $\frac{1}{4}$	.....	$\frac{5}{16}$ & $\frac{3}{8}$	.....
$\frac{5}{8}$ & $\frac{11}{16}$	2022	.90	.330	7 $\frac{1}{2}$	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
$\frac{5}{8}$ & $\frac{3}{4}$	2024	.90	.330	7 $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	.....	$\frac{7}{16}$ & $\frac{1}{2}$
$\frac{3}{4}$ & $\frac{7}{8}$	2428	1.20	.380	8 $\frac{13}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	..... $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$
$\frac{25}{32}$ & $\frac{13}{16}$	2526	1.20	.350	8 $\frac{1}{2}$	.....	$\frac{7}{16}$.....	..... $\frac{9}{16}$
$\frac{7}{8}$ & 1	2832	1.40	.400	10 $\frac{1}{16}$	$\frac{9}{16}$ & $\frac{11}{16}$	$\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$
$\frac{15}{16}$ & $\frac{11}{16}$	3034	1.80	.500	10 $\frac{15}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	..... $\frac{5}{8}$	.....
$\frac{11}{16}$ & $\frac{11}{16}$	3440	2.25	.570	13	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	..... 1
$\frac{11}{8}$ & $\frac{11}{4}$	3640	2.25	.570	14 $\frac{1}{8}$	..... $\frac{7}{8}$	..... $\frac{3}{4}$	$\frac{7}{8}$ & 1

Jaws That Never Spread on a Tough Pull

Short Open End Wrenches



THESE small Open End Wrenches will prove invaluable wherever nuts $\frac{3}{16}$ " to $\frac{7}{16}$ " sizes are encountered, and especially so where working space is extremely limited. Openings are accurately milled and heads are thin and narrow for working in tight places.

J-5 Set—One each of the five wrenches listed below. Tools only.....\$2.25

J-5K Set—Five wrenches listed below complete in C-52 Kit Bag.....\$2.40



Sizes of Openings in Inches	Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap. Sc.
$\frac{3}{16}$ & $\frac{7}{32}$	J-1214	\$0.45	.110	2 $\frac{1}{2}$	.....	.....	.....
$\frac{1}{4}$ & $\frac{5}{16}$	J-1620	.45	.150	2 $\frac{15}{16}$	.....	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{5}{16}$ & $\frac{11}{32}$	J-2022	.45	.140	3 $\frac{3}{16}$	.....	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{8}$ & $\frac{7}{16}$	J-2428	.45	.180	3 $\frac{1}{2}$	..... $\frac{1}{4}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$
$\frac{1}{2}$ & $\frac{9}{16}$	J-3236	.45	.200	3 $\frac{15}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$

Ignition Wrenches



MIDGET size Open End Wrenches that make easy work of all those tricky ignition, carburetor, radio, electrical jobs, etc. Made in pairs with two different sizes on each wrench, and each size duplicated on a separate wrench and at a different angle.

C-10 Set—One each of all sizes. Tools only.....\$4.50

C-10-K Set—Above set in No. C-100 kit bag....\$4.75

C-8 Set—One each of all sizes except C-1719 and C-1917. Tools only...\$3.60

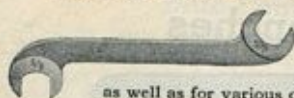
C-8-K Set—Above set in No. C-100 kit bag....\$3.85



Size		Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap. Sc.
180° End	45° End							
$\frac{7}{32}$	$\frac{15}{64}$	C-1415	\$0.45	.100	2 $\frac{1}{2}$	.....	.....	.....
$\frac{15}{64}$	$\frac{7}{32}$	C-1514	.45	.100	2 $\frac{1}{2}$	.....	.....	.....
$\frac{1}{4}$	$\frac{9}{32}$	C-1618	.45	.110	2 $\frac{7}{8}$	.....	.....	.....
$\frac{9}{32}$	$\frac{1}{4}$	C-1816	.45	.110	2 $\frac{7}{8}$	.....	.....	.....
$\frac{17}{64}$	$\frac{19}{64}$	C-1719	.45	.110	3	.....	.....	.....
$\frac{19}{64}$	$\frac{17}{64}$	C-1917	.45	.110	3	.....	.....	.....
$\frac{5}{16}$	$\frac{11}{32}$	C-2022	.45	.110	3 $\frac{1}{4}$	.....	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{11}{32}$	$\frac{5}{16}$	C-2220	.45	.110	3 $\frac{1}{4}$	.....	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{3}{8}$	$\frac{7}{16}$	C-2428	.45	.135	3 $\frac{21}{32}$	..... $\frac{1}{4}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$
$\frac{7}{16}$	$\frac{3}{8}$	C-2824	.45	.135	3 $\frac{21}{32}$	$\frac{1}{4}$	.....	$\frac{1}{4}$ & $\frac{3}{8}$

An Accurate Fit is More Important on Small Sizes

Blue-Point Brake Wrenches

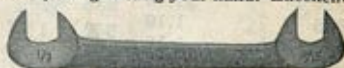


These wrenches have the same size of opening on each end, one at a 90° angle and the other at a 30° angle with the handle, adapted for adjusting Lockheed hydraulic brakes on many late model cars, as well as for various other jobs. An excellent all purpose tool for general repair work.

Size of Openings in Inches	Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap Sc.
1/2	5216	\$0.75	.210	6 3/8	5/16	1/4	5/16
9/16	5218	.75	.210	6 3/8	3/8	.....	3/8
5/8	5220	.75	.210	6 3/8	7/16	.....	7/16

Right Angle Wrenches

Made with both openings turned in the same direction so you can use the full leverage on either end without the other opening cutting your hand. Excellent for brake adjusting, manifold, cylinder head and spring shackle work as well as other close quarter jobs.



Size of Openings in Inches	Stock No.	Price	Head Thickness	Overall Length	SAE	USS Nuts	USS Cap Sc.
1/2 & 9/16	RA-1618	\$0.65	.260	6 1/8	5/16 & 3/8	1/4.....	5/16 & 3/8

Long Brake Wrenches



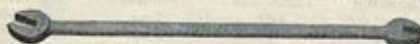
New Blue-Point wrenches designed for brake adjusting, etc.

No.	Length	Openings	Head Thickness	Price
B-1450	16"	15/16" & 1 1/16"	7/16"	\$1.95
B-1451	16"	1" & 1 1/8"	7/16"	1.95
B-1452	15"	3/4" & 7/8"	7/16"	1.70

Special Bendix Brake Wrenches

Containing four sizes of openings for work on Bendix Brakes. A most excellent tool for every brake shop.

No.	Length	Openings	Price
B-1352	7"	3/16", 1/4", 5/8", and 1/2"	\$0.90



B-1351 — Especially designed to take the Eccentric Cam on Bendix Internal Brakes and gives three most needed sizes of openings. 9" long, 1/4" head thickness, single end 3/16" opening, double end 1/4" and 5/16" openings. Each.....\$0.90

Special Brake Adjusting Tools



S-9153—Special tool for turning the adjusting nut in Pontiac brakes. Each...\$0.75

B-3404—For adjusting star adjusting nut on Bendix brakes on all late model cars. Each.....\$0.75



S-9154—For adjusting the Star Adjusting Nut on Bendix Brakes on Hudson-Essex cars. Each \$1.00

Every Type of End Wrench That Efficiency Demands

Snap-on

Water Pump Packing Nut Wrenches

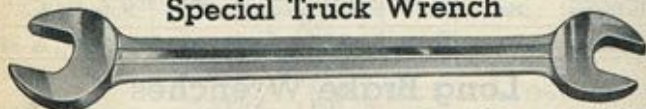


PATENTED REISSUE
NO. 17,417

THESE wrenches have a decided advantage over the ordinary end wrench for hexagon water pump packing nuts because they take a positive grip and cannot slip and injure the nuts. Note that a portion of the head is cut away, allowing space for inserting wrench over the shaft and onto the nut.

No.	Size	Price	No.	Size	Price	No.	Size	Price
924	$\frac{3}{4}$ "	\$1.00	938	$1\frac{3}{16}$ "	\$1.25	946	$1\frac{7}{16}$ "	\$1.45
928	$\frac{7}{8}$ "	1.10	940	$1\frac{1}{4}$ "	1.25	948	$1\frac{1}{2}$ "	1.45
932	1"	1.10	942	$1\frac{5}{16}$ "	1.30	952	$1\frac{5}{8}$ "	1.50
934	$1\frac{1}{16}$ "	1.15	944	$1\frac{3}{8}$ "	1.40	956	$1\frac{3}{4}$ "	1.55
936	$1\frac{1}{8}$ "	1.25						

Special Truck Wrench



BUILT for general truck service and where longer leverage and added strength are required. The $1\frac{1}{4}$ " and $1\frac{1}{2}$ " opening sizes are required for many jobs on trucks, buses, tractors, etc., and even though your standard wrench equipment contains these sizes, the added strength and leverage will make this tool a good investment.

TS-3440— $1\frac{1}{8}$ " and $1\frac{1}{4}$ " openings. Each.....\$2.60

Diamalloy Steel Wrenches

THE Diamalloy Featherweight Adjustable Wrench is made of a new alloy steel of remarkable strength. The wrench is actually twice as strong and a third thinner and lighter than the standard pattern. We recommend them as the best quality tools of this type made. Rust-proof chrome plate finish.



$\frac{1}{3}$ rd Thinner—Twice as Strong

No.	Size	Capacity	Head Thickness	Weight	Price
D-74	4"	$1\frac{1}{2}$ "	$\frac{5}{16}$ "	2 oz.	\$1.00
D-76	6"	$1\frac{3}{4}$ "	$\frac{15}{32}$ "	5 oz.	1.00
D-78	8"	$1\frac{7}{8}$ "	$\frac{15}{32}$ "	8 oz.	1.25
D-710	10"	$1\frac{7}{8}$ "	$\frac{9}{16}$ "	13 oz.	1.55
D-712	12"	$1\frac{7}{8}$ "	$\frac{3}{4}$ "	24 oz.	2.25
D-715	15"	$1\frac{11}{16}$ "	$\frac{11}{16}$ "	49 oz.	3.40



Pipe Wrenches

THE housing of these wrenches is guaranteed against breakage or distortion. Powerful I-beam handle. Grip and hold perfectly under the stiffest pull but you can't lock them on a pipe. Jaws are replaceable.

No.	Size	Weight	Price	No.	Size	Weight	Price
6	6"	7 oz.	\$0.90	14	14"	3 $\frac{3}{4}$ lbs.	\$1.75
8	8"	15 oz.	1.00	18	18"	5 lbs.	2.55
10	10"	1 $\frac{1}{4}$ lbs.	1.30	24	24"	8 $\frac{1}{2}$ lbs.	4.35

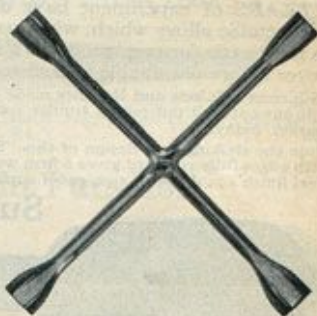
In Ordering by Mail Please Give Stock Number

Tire Servicing Tools

Blue-Point Rim Wrench

A four way speed wrench having powerful leverage, adapted for lug nuts and tire carrier nuts or bolts on over 90 per cent of the different makes of cars. Also adapted for practically all disc and wire wheel nuts. Sockets broached extra deep in order to clear bolt ends and the high acorn or cap nuts found on disc wheels.

No. 400— $\frac{5}{8}$ ", $1\frac{1}{16}$ ", $\frac{3}{4}$ ", and $\frac{7}{8}$ " openings, 16" across each way. Highly polished nickel finish. Each.....\$2.15



Spring Shackle Greasing Bar



A big help in loosening up those tight shackles and doing a thorough greasing job. The jaws grip two or three of the spring leaves for applying powerful side pressure. Curved end is notched to prevent the tool from slipping on the job.

No. A-250 Grease Bar. Each.....\$2.50

Blue-Point Tire Hammer



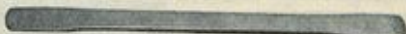
BH-40—Head and handle all one piece drop forged steel. In-laid second growth hardwood handle scales give perfect grip. Weight $3\frac{1}{2}$ lbs. Each.....\$2.75

Blue-Point Rim Tool



BH-270—This tool will unlock all types of rims and remove side rings on Firestone rims and all disc and wire wheels. Made to give long service in busy tire repair shops. Each.....\$1.50

Blue-Point Tire Tool



BH-250—Very tough tempered, forged steel. Round edges. Tapered from end to end. Will exert tremendous leverage. $\frac{3}{8}$ " thick, $1\frac{1}{2}$ " wide, 16" long. Each.....\$0.45

Allen Head Wrenches

Handy Wrenches to have in your tool kit and made in the most generally used sizes of Allen Head Screw.

Size Inches	Price	Size Inches	Price	Size Inches	Price
$\frac{1}{16}$	\$0.05	$\frac{5}{16}$	\$0.05	$\frac{1}{4}$	\$0.10
$\frac{3}{32}$	.05	$\frac{3}{8}$	.10	$\frac{5}{8}$	.15
$\frac{1}{8}$	.05	$\frac{7}{8}$	.10	$\frac{3}{4}$	.20

Take the Trouble Out of Tire Servicing

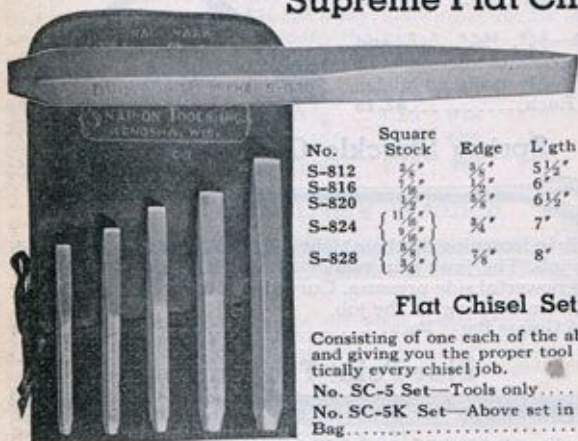
Blue-Point "Supreme" Chisels and Punches

YEARS of experiment have developed a new combination of metallic alloys which, when used with a high percent of carbon in an electric furnace, produces a steel possessing physical qualities never before obtainable in tool steels.

"Supreme" Chisels and Punches made of this steel and properly heat-treated will out-cut and out-punch similar tools made from any other steel on the market today.

Note the striking new design of this "Supreme" line. A square stock handle with edges fully rounded gives a firm working grip and a solid drive. Stainless steel finish . . . durable, rust-proof surface.

Supreme Flat Chisels



No.	Square Stock	Edge	L'gth	Each
S-812	$\frac{3}{8}$ "	$\frac{3}{8}$ "	5 $\frac{1}{2}$ "	\$0.45
S-816	$\frac{1}{2}$ "	$\frac{1}{2}$ "	6"	.55
S-820	$\frac{3}{4}$ "	$\frac{3}{4}$ "	6 $\frac{1}{2}$ "	.65
S-824	{ 1 $\frac{1}{8}$ " 1 $\frac{1}{4}$ " 1 $\frac{3}{8}$ " 1 $\frac{1}{2}$ " 1 $\frac{5}{8}$ " 1 $\frac{3}{4}$ " }	$\frac{3}{4}$ "	7"	.80
S-828	{ 1 $\frac{1}{8}$ " 1 $\frac{1}{4}$ " 1 $\frac{3}{8}$ " 1 $\frac{1}{2}$ " 1 $\frac{5}{8}$ " 1 $\frac{3}{4}$ " }	$\frac{7}{8}$ "	8"	1.00

Flat Chisel Set

Consisting of one each of the above sizes and giving you the proper tool for practically every chisel job.

No. SC-5 Set—Tools only \$3.45

No. SC-5K Set—Above set in C-50 Kit Bag \$3.70

Supreme Cape Chisels



No.	Square Stock	Edge	Length	Each
S-13	$\frac{3}{8}$ "	$\frac{1}{4}$ "	6"	\$0.55
S-14	$\frac{1}{2}$ "	$\frac{1}{2}$ "	6"	.60

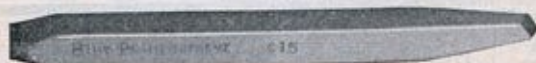
Round Nose Cape Chisel

As this tool is subject to abuse we cannot guarantee it against breakage.



No.	Square Stock	Width of Edge	Length	Price
S-12	$\frac{3}{8}$ "	$\frac{1}{2}$ "	6"	\$0.55

Supreme Diamond Point Chisels



No.	Square Stock	Edge	Length	Each
S-15	$\frac{1}{2}$ "	$\frac{1}{4}$ "	6 $\frac{1}{4}$ "	\$0.55
S-19	$\frac{3}{8}$ "	$\frac{1}{8}$ "	5 $\frac{1}{2}$ "	.45

Better Design, Greater Strength, Finer Finish

B. P. Supreme Punches Supreme Center Punches



S-3-C— $\frac{1}{8}$ " Square Stock, 5" Length.	Each.....	\$0.35
S-4-C— $\frac{1}{8}$ " Square Stock, 6" Length.	Each.....	.45

Supreme Pin Punches



No.	Square Stock	Point	Length	Each
S-603	$\frac{1}{8}$ "	$\frac{3}{16}$ "	5"	\$0.40
S-604	$\frac{1}{8}$ "	$\frac{1}{2}$ "	$5\frac{1}{2}$ "	.45
S-605	$\frac{1}{8}$ "	$\frac{3}{8}$ "	6"	.50
S-606	$\frac{1}{8}$ "	$\frac{1}{2}$ "	$6\frac{1}{2}$ "	.60
S-608	$\frac{1}{8}$ "	$\frac{3}{4}$ "	$6\frac{3}{4}$ "	.65
S-610	$\frac{1}{8}$ "	$\frac{7}{8}$ "	7"	.70

Pin Punch Set

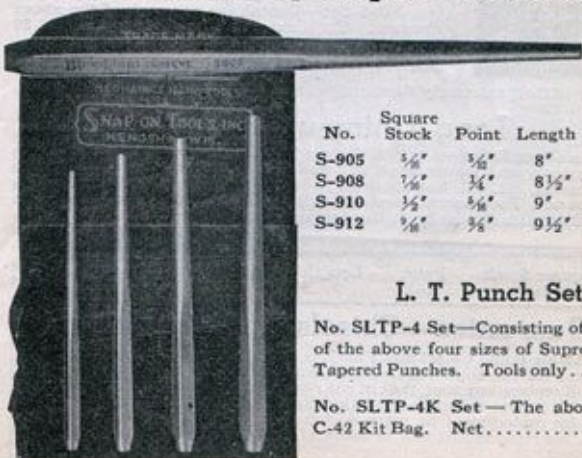
No. SP-6 Set—Containing one each of the above six sizes of Supreme Pin Punches. Tools only.....\$3.30

No. SP-6K Set—The above set in C-60 Kit Bag. Net.....\$3.60

Note: Due to the extremely fine points on Nos. S-603 and S-604 we cannot guarantee these two tools.



Supreme Long Tapered Punches



No.	Square Stock	Point	Length	Each
S-905	$\frac{1}{8}$ "	$\frac{1}{2}$ "	8"	\$0.55
S-908	$\frac{1}{8}$ "	$\frac{3}{4}$ "	$8\frac{1}{2}$ "	.65
S-910	$\frac{1}{8}$ "	$\frac{5}{8}$ "	9"	.75
S-912	$\frac{1}{8}$ "	$\frac{3}{4}$ "	$9\frac{1}{2}$ "	.85

L. T. Punch Set

No. SLTP-4 Set—Consisting of one each of the above four sizes of Supreme Long Tapered Punches. Tools only.....\$2.80

No. SLTP-4K Set—The above set in C-42 Kit Bag. Net.....\$3.05

Blue-Point "Supreme" Steel is the Strongest Made

"Supreme" Starter Punches

WHEN driving out pins, bolts, etc., it is always advisable to begin the job with a "starter" punch. These punches are tapered to give a strong shaft capable of withstanding the first heavy shock blows without breaking.



No.	Square Stock	Length	Square	Each
S-203	$\frac{3}{16}$ "	5 $\frac{1}{2}$ "		\$0.40
S-204	$\frac{3}{16}$ "	6 $\frac{1}{8}$ "		.50
S-206	$\frac{3}{16}$ "	6 $\frac{3}{8}$ "		.60
S-210	$\frac{3}{16}$ "	7"		.65

Starter Punch Set

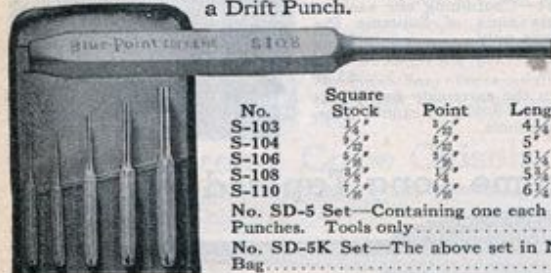
No. SS-4 Set—Contains one each of the above four Starter Punches. Tools only.....\$2.15

No. SS-4K Set—The above set in No. C-42 Kit Bag.....\$2.40

Note: Due to its extremely fine point we cannot guarantee S-203.

"Supreme" Drift Punches

FOR finishing the job of removing the pins or bolts already started with the Starter Punches listed above. Never start a pin with a drift punch. It is not designed for such work. Use a Starter Punch to loosen the pin and finish pushing it through with a Drift Punch.



No.	Square Stock	Point	Length	Each
S-103	$\frac{1}{4}$ "	$\frac{3}{16}$ "	4 $\frac{1}{4}$ "	\$0.35
S-104	$\frac{5}{16}$ "	$\frac{3}{16}$ "	5"	.40
S-106	$\frac{5}{16}$ "	$\frac{3}{16}$ "	5 $\frac{1}{4}$ "	.45
S-108	$\frac{3}{8}$ "	$\frac{1}{4}$ "	5 $\frac{3}{4}$ "	.50
S-110	$\frac{7}{16}$ "	$\frac{3}{16}$ "	6 $\frac{1}{4}$ "	.60

No. SD-5 Set—Containing one each of the above Punches. Tools only.....\$2.30

No. SD-5K Set—The above set in No. C-50 Kit Bag.....\$2.55

Note: Due to their extremely slender tips we cannot guarantee S-103 and S-104.

Long Lining-up Punch

HERE is a long lining-up punch designed for assembly work. Mechanics doing body and fender work will find it very useful for lining holes in fenders, frames, etc. It has a center point that can be used for punching holes in metal. For general purpose work it will be a valuable addition to any kit. Due to its slender blade this tool is not guaranteed.

No.	Square Stock	Point	Length of Taper	Overall Length	Price
S-714	$\frac{3}{16}$ "	$\frac{3}{16}$ "	9 $\frac{13}{16}$ "	14"	\$1.25

Guarantee—Chisels and Punches

Every Blue-Point Chisel and Punch is tested under rigid instructions to reject for the slightest visible defect of material or workmanship. We will replace any tool, that in the reasonable usage for which it was designed, proves defective in workmanship or material, provided that claim for replacement be made within thirty days from date of purchase. No replacement will be made of tools which have been ground or abused.

It's Easy to Work When You Have the Correct Tool

Midget "Supreme" Punch and Chisel Set



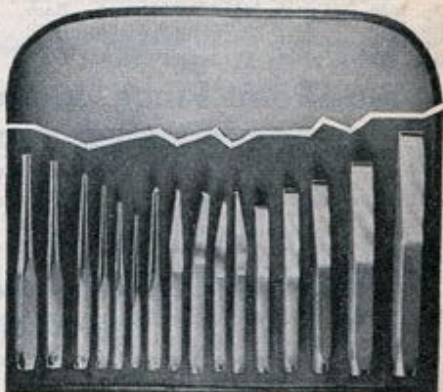
UNTIL you see this new set you have no idea what a really good Midget Set of Punches and Chisels looks like. Seven different units comprise the set and offer you the handiest little outfit you ever saw for those radio, electrical, and other small jobs. The set consists of the following tools which are built of the same Semi-High Speed Steel as the larger "Supreme" Punches and Chisels, and are finished in chrome plate. All are made from $\frac{3}{16}$ " square stock. The Set contains:

SV-402—Drift Pin Punch, 3" long, $\frac{1}{16}$ " point.....	\$0.25
SV-403—Drift Pin Punch, 3 $\frac{1}{4}$ " long, $\frac{1}{16}$ " point.....	.30
SV-404—Starter Pin Punch, 3 $\frac{3}{4}$ " long, $\frac{1}{16}$ " point.....	.30
SV-405—Center Punch, 3 $\frac{3}{4}$ " long.....	.30
SV-406—Cape Chisel, 3 $\frac{3}{4}$ " long, $\frac{3}{16}$ " edge.....	.35
SV-407—Round Nose Cape Chisel, 4" long, $\frac{3}{16}$ " wide.....	.35
SV-408—Flat Cold Chisel, 4 $\frac{1}{2}$ " long, $\frac{3}{16}$ " edge.....	.30
SVP-7 Midget "Supreme" Punch and Chisel Set, Complete in kit bag.....	\$1.95

Note: As these small tools are subject to abuse we cannot guarantee them.

"Supreme" Chisel and Punch CP-16 Set

THIS set was selected according to the suggestions received from mechanics in all sections of the country, and represents the most useful selection of tools for all around work. There are many advantages in owning such a set . . . you have a uniform outfit of dependable tools instead of a haphazard collection of odds and ends. You can't turn all nuts with one wrench . . . you can't use one size chisel or punch on all jobs and do good work . . . This set gives you the correct tool for practically all chisel and punch jobs.



Blue Point Chisels and Punches are hammer formed the same way the blacksmith used to make them by hand, only we use power hammers. The hammering refines the grain, and the low temperature at which they are formed preserves the carbon which gives strength and lasting qualities to the steel. Set contains the following units—

- 5 "Supreme" Flat Chisels, Nos. S-312 to S-828 (See page 54).
- 6 "Supreme" Pin Punches, Nos. S-603 to S-610 (See page 55).
- 2 "Supreme" Diamond Point Chisels, S-15 and S-19 (See page 54).
- 1 "Supreme" Cape Chisel, S-13 (See page 54).
- 1 "Supreme" Round Nose Cape Chisel, S-12 (See page 54).
- 1 "Supreme" Center Punch, S-4-C (See page 55).

CP-16—Chisel and Punch Set—Tools only.....	\$ 9.30
CP-16-K—Above Set in C-160 Kit Bag.....	10.05

Have the Proper Tool for the Job—Buy Sets

Blue-Point Flat Chisels

HAND-FORGED from finest electric furnace, high carbon chisel steel, individually heat-treated and tested to the standard best adapted to the use for which each tool is designed. Perfectly balanced, hand-ground cutting edges. The blades are long and thin and can be re-edged with a file when necessary.

Note: Never re-edge a chisel on a grinding wheel, as the temper will invariably be changed to a less satisfactory degree of hardness.



No.	Stock	Edge	Length	Each
812	$\frac{3}{8}$ "	$\frac{3}{8}$ "	5½"	\$0.35
816	$\frac{7}{16}$ "	$\frac{1}{2}$ "	6"	.40
820	$\frac{1}{2}$ "	$\frac{5}{8}$ "	6½"	.45
824	$\frac{5}{8}$ "	$\frac{3}{4}$ "	7"	.50
828	$\frac{3}{4}$ "	$\frac{7}{8}$ "	8"	.65

Flat Chisel Set

Consisting of the five sizes of Flat Chisels shown above, giving you the correct tools for practically every chisel job.

No. C-5 Set—Tools only.....\$2.35

No. C-5K Set—Above tools in C-50 kit bag... 2.60



Long Flat Chisels



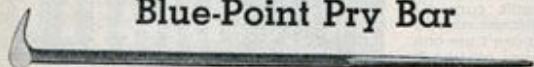
No. 1020— $\frac{5}{8}$ " stock, $\frac{3}{4}$ " edge, 11" length.	Each.....	\$0.75
No. 1024— $\frac{3}{4}$ " stock, $\frac{7}{8}$ " edge, 12" length.	Each.....	1.00
No. 1628— $\frac{3}{4}$ " stock, $\frac{7}{8}$ " edge, 16" length.	Each.....	1.25
No. 1832— $\frac{3}{4}$ " stock, 1" edge, 18" length.	Each.....	1.65

Blue-Point Pinch or Jimmy Bars



1112— $\frac{7}{16}$ " octagon stock, $\frac{1}{2}$ " edge, 11" length.	Each.....	\$0.85
1658— $\frac{1}{2}$ " octagon stock, $\frac{9}{16}$ " edge, 16" length.	Each.....	1.25
2434— $\frac{3}{4}$ " octagon stock, $1\frac{1}{2}$ " edge, 24" length.	Each.....	1.50

Blue-Point Pry Bar



New design pry bar that will do everything the standard design bar will do, plus a great deal more. This rolling head has a tremendous amount of leverage and can often be used for prying out gears, bushings, etc.

No. 1650—Pry Bar. Each.....\$1.25

Shock Absorber Link Separator



S-9092—Designed to separate shock absorber links and tie rod joints... particularly useful on Ford V-8 cars. (It will not handle Ford trucks.) The nut is removed from the tapered bolt holding the shock absorber link... the wedged shaped fork is placed between the link and the shock absorber arm—a few hammer blows on the end of tool quickly separates the bolt and shock arm. Used in similar manner on tie rod joints.

Forged from high quality chisel steel, 19" long. Each.....\$1.95

Always Use a File to Re-sharpen a Chisel

Screw Extractors

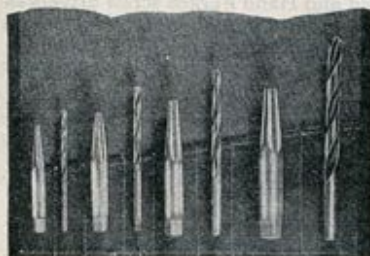


USED for removing broken studs and screws, especially when the stud has broken off flush in such places as cylinder heads, manifolds, main bearings, etc. The spline shaft design will take the drill hole quickly and easily without spreading the broken stud.

Screw Extractors

Drills

Stock No.	Handles Thread Sizes	Use Drill Hole	Price	Size	Price
E-1	$\frac{3}{16}$ " to $\frac{1}{4}$ "	$\frac{1}{8}$ "	\$0.55	$\frac{1}{8}$ "	\$0.35
E-2	$\frac{5}{16}$ " to $\frac{3}{8}$ "	$\frac{3}{8}$ "	.60	$\frac{5}{16}$ "	.47
E-3	$\frac{1}{2}$ " to $\frac{5}{8}$ "	$\frac{1}{2}$ "	.70	$\frac{1}{2}$ "	.65
E-4	$\frac{3}{4}$ " and over	$\frac{3}{4}$ "	.75	$\frac{3}{4}$ "	1.32

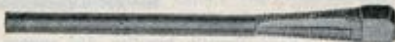


Note: Be sure to use the size drill marked on the extractor. High-carbon, molybdenum steel with special qualities for resisting shocks and holding a wedging edge.

Easily removed from broken stud.

SED-44 Set of four Screw Extractors and four drills complete in No. C-100 kit bag.....\$5.64

Blue-Point Bushing Remover



cuts its own thread without wedging . . . easily removed from the bushing. Not guaranteed against breakage or damage in use.

1233—For $\frac{3}{8}$ " to $\frac{1}{2}$ " bushings. Each.....\$0.95
1234—For $\frac{1}{2}$ " to $\frac{3}{4}$ " bushings. Each.....1.75

Cotter Pin Tools

S-9094—Cotter Pin Remover. The hook end is inserted in cotter pin eye and a few sharp blows struck on the inside of the anvil end. It pulls the most stubborn pin easily . . . hook is small enough to get into close places and pull small pins. Heat treated to give maximum strength. $9\frac{1}{4}$ " long. Not guaranteed against breakage.
 Each.....\$0.95



Six inches long, $\frac{5}{16}$ " octagon stock. Point on one end, flat edge on other. Each.....\$0.40

6-P—For spreading or removing cotter pins. Also used for packing water pumps and other jobs.

Rivet and Ring Gear Busters



No. RB-10—Rivet Buster— $\frac{3}{4}$ " stock, $\frac{3}{4}$ " edge, 10" length. Each....\$0.85
No. RG-10—Ring Gear Buster— $\frac{3}{8}$ " stock, $\frac{1}{2}$ " edge, $2 \times \frac{3}{4}$ " angle, 10" length. Each.....\$0.85

Blue-Point Never Builds Down to a Price

B. P. "Pyralin" Screw Drivers



THESE Screw Drivers are built to stand the most severe screw driver requirements of the average professional mechanic. The blades are forged from a high carbon, chrome vanadium alloy tool steel, carefully hardened and tempered to provide the most exacting degree of toughness and resiliency. The blade is cross ground at the tip; the edges are smooth and will not ride out of the screw head groove.

Handles are molded onto the blades and two fins on the shank prevent the blade from turning in the handle. They are made of transparent amber colored pyralin and are fluted to give a comfortable, secure grip. This material is an insulator making the drivers suitable for use in electrical work. We recommend both our Insuloid and Hand Forged screw drivers as the finest quality tools, but offer the two styles to suit your individual preference.

No.	Blade Length	Blade Edge	Stock	Each
4-PH	4"	$\frac{1}{8}"$	$\frac{3}{4}"$	\$0.80
6-PH	6"	$\frac{5}{16}"$	$\frac{5}{8}"$	1.10
8-PH	8"	$\frac{3}{8}"$	$\frac{3}{4}"$	1.40
12-PH	12"	$\frac{1}{2}"$	$1\frac{1}{8}"$	1.65
18-PH	18"	$\frac{5}{8}"$	$1\frac{1}{2}"$	3.00

Cabinet Screw Drivers



Long, thin drivers, especially good for electrical and body work—get into close corners. Pyralin handles, $\frac{5}{16}"$ square alloy steel blade—carefully heat-treated to give sturdy strength. Well balanced and giving a firm grip.

No. 143—3" Blade.	Each.....	\$0.65
No. 146—6" Blade.	Each.....	.80
No. 1410—10" Blade.	Each.....	.90

Screw Holding Screw Driver



The first really practical screw holding screw driver we have seen. A spring tongue lines up in the blade tip, and after insertion into the screw slot is locked there under pressure by a sliding ferrule on the screw driver blade. Extremely handy for starting screws in otherwise inaccessible places.

GA-5—2 $\frac{1}{2}"$ blade, $\frac{1}{4}"$ stock.	Overall length 5".	Each..	\$1.00
GA-6—5" blade, $\frac{3}{4}"$ stock.	Overall length 8 $\frac{1}{2}"$.	Each...	1.25

Flashlight Screw Driver



Ideal for handling small screws in dark, inaccessible corners. Invaluable for all service testing, ignition, carburetor, radio, refrigeration servicing, etc. Uses standard No. 915 Ever-Ready batteries. Throws a bright ray of light right where it does you the most good. Good quality steel blade is 5" long, $\frac{5}{16}"$ stock, overall length 10 $\frac{1}{2}"$, Pyralin handle. *This tool is not guaranteed.*
ED-5—Complete with 2 batteries and bulb.....\$1.65

Our Tools Sell on Quality and Performance

Hand Forged Screw Drivers

THIS new series of Blue-Point Hand Forged Screw Drivers offer an exceptional value to the mechanic who wants a good quality tool to turn screws with and not to use as a cold chisel or pry bar. We have designed these units expressly for screw driving work and state definitely that they are not constructed to be used in place of a pry bar or as a chisel.

The blades are forged from electric furnace alloy tool steel and are carefully heat-treated to provide maximum torque strength and resiliency to the extreme end of the blade. Blades are ground to a long thin taper to fit snugly into screw slots. Wooden handles of selected straight grained stock are fashioned to fit the hand comfortably and provide a perfect grip. We recommend this line as the finest quality "Screw Driving" Screw Drivers.

No.	Blade Length	Blade Edge	Stock	Price
2-W	2"	$\frac{1}{8}$ "	$\frac{3}{16}$ "	\$0.40
4-W	4"	$\frac{1}{8}$ "	$\frac{1}{4}$ "	.65
6-W	6"	$\frac{1}{8}$ "	$\frac{1}{2}$ "	.85
8-W	8"	$\frac{1}{8}$ "	$\frac{3}{4}$ "	1.00
12-W	12"	$\frac{1}{8}$ "	$\frac{3}{4}$ "	1.25

Hammer-Head Screw Driver



An improved type of hammer-head Screw Driver . . . one blade is parallel with the handle, the other blade at right angles to it. It is an excellent tool for many jobs which do not allow sufficient room for the use of a standard type Screw Driver. Not Guaranteed. H-50A Screw Driver—7" long, blade $\frac{1}{2}$ " wide, $\frac{1}{8}$ " thick.

Each \$0.85

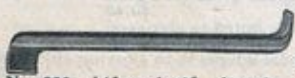
Offset Screw Drivers

No. 050 Offset Screw Driver. A short bladed offset type screw driver especially suitable for Ford drag link work. $7\frac{1}{2}$ " long, $\frac{1}{2}$ " octagon stock, blades $\frac{3}{4}$ " wide, $\frac{3}{16}$ " thick, $\frac{1}{4}$ " deep. Each \$0.75

No. 060 Offset Screw Driver. A heavy duty offset type screw driver intended for general drag link and shock absorber adjusting work. 7" long, $\frac{1}{2}$ " octagon stock, blades $2\frac{1}{2}$ " wide, $\frac{3}{16}$ " thick. Each \$0.75

No. 090 Offset Screw Driver

Extra long, heavy duty screw driver especially designed for servicing anchor pins on 1937 Pontiac and Oldsmobile brakes. 9" long, blade $\frac{1}{2}$ " x $\frac{3}{4}$ ". Each \$0.75



No. 020— $\frac{1}{4}$ " stock, 4" length.

No. 030— $\frac{3}{8}$ " stock, $4\frac{3}{4}$ " length.

No. 040— $\frac{1}{2}$ " stock, $5\frac{1}{4}$ " length.

The following numbers have the offset on opposite sides of the handle as illustrated. Many mechanics prefer this style.

Blades $\frac{1}{4}$ " wide, $\frac{1}{16}$ " thick. Each . . . \$0.40

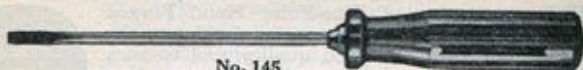
Blades $\frac{3}{8}$ " wide, $\frac{1}{16}$ " thick. Each50

Blades $\frac{1}{2}$ " wide, $\frac{1}{16}$ " thick. Each60



Have a Heart!—Don't "Chisel" With a Screw Driver

Spark Testing Screw Drivers



No. 145

SLENDER bladed pyralin handle Screw Drivers with Neon tubes fitted into the handle for spark testing purposes. Place the blade tip to the plug and watch the flashes in the tube.

Brilliant flash—plug good . . . thin flash—gap too narrow . . . no flash—plug shorted. Excellent for all electrical and small bench jobs.

No. 145 Screw Driver, 6" blade. Each . . . \$0.95

No. 1015 Screw Driver, 3" blade. This tool is fitted with a pocket clip and also has a sliding spring for covering blade tip and protecting the pocket. Each . . . \$0.50



No. 1015

General Purpose Screw Driver



No. 3168—A slender, octagon blade of 8" length for generator, electrical, and general purpose work. A good screw driver at low cost. Fluted wood handle gives firm grip. Each . . . \$0.60

Radiator Shell Screw Driver



ST-1535—An extremely long, slender bladed screw driver, useful for radiator shell work on the latest car models, for electrical work, and other work where extra long reach is necessary. Blade 15" long. Each . . . \$1.50

Miscellaneous Short Screw Drivers



ST-234—2 3/4" blade, 3/4" stock, Pyralin handle adapts it to small electrical jobs. Useful all purpose screw driver for small work. Each . . . \$0.45

No. 1010 1 1/2" blade, 1/2" stock, pyralin handle fitted with pocket clip. For very small screws. Tip magnetized. Each . . . \$0.25

No. 181 1/2—1 1/2" blade, 1/2" stock, wood handle. Handy for small jobs. Each . . . \$0.25

No. 142—2" blade, 3/4" stock, wood ball handle gives good grip. A sturdy tool for small jobs. Each . . . \$0.40

No. 152—1 1/2" blade, 1/2" stock, maple handle fluted to give good grip. Useful for close-up jobs. Each . . . \$0.35

No. 154—2" blade, 3/4" stock, pyralin handle adapts it to close-up electrical work. Each . . . \$0.50

No. 153—2 3/8" blade, 3/4" stock, tip 3/8" wide, 1/8" thick. A sturdy driver for all work, especially useful for overhead valve adjusting screws, drag links, etc. Each . . . \$0.75

Blue-Point Quality Sets a National Standard

Standard Screw Drivers



Drivers of exceptional strength and utility. Blade extends clear through handle to an enlarged hexagon butt, can't turn in handle. Ferrule riveted through handle and blade. Octagon stock, special tool steel, heat treated.

- X- 144—Blade $\frac{1}{4}$ " wide, 4" long. Each.....\$0.55
 X-5166—Blade $\frac{5}{16}$ " wide, 6" long. Each......65
 X- 388—Blade $\frac{3}{8}$ " wide, 8" long. Each......80

Cross Slot Screw Driver

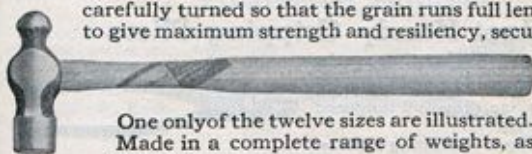


Shaped to fit the new cross-slot type screw which is now being used on the molding, inner trim, etc., on many of the latest car models, such as 1937 Fisher bodies. The 4" blade is made from high grade screw driver steel and securely anchored in a black enameled seasoned wood handle.

- ST-4—Screw Driver. Each.....\$0.65

Ball Pein Hammers

STRICTLY a quality line of hammers, correctly designed and balanced, heat treated just right to make them the most serviceable for all around work, handsome blued finish. The handles are made of selected second growth, well seasoned hickory, carefully turned so that the grain runs full length of handle to give maximum strength and resiliency, securely anchored in the heads.



One only of the twelve sizes are illustrated. Made in a complete range of weights, as follows:

No.	Weight	Price	No.	Weight	Price
7-0	2 Oz.	\$1.00	1	1 $\frac{1}{4}$ Lbs.	\$1.15
5-0	4 Oz.	1.00	2	1 $\frac{1}{2}$ Lbs.	1.20
4-0	6 Oz.	1.00	3	1 $\frac{3}{4}$ Lbs.	1.30
3-0	8 Oz.	1.00	4	2 Lbs.	1.40
2-0	12 Oz.	1.00	6	2 $\frac{1}{2}$ Lbs.	1.60
0	1 Lb.	1.05	8	3 Lbs.	1.85

Extra Handles for any size hammer. Highest quality obtainable and conforming to Government specifications. Each.....25c

Cellulose Tip Hammers

A SOFT tip hammer for fitting piston pins, fender bumping, tapping bearings, plated parts, etc. They will stand a lot of pounding without undue marring of the face. Extra tips can be fitted on when necessary.



Hammers Complete

Extra Tips

Stock No.	Weight	Price	Stock No.	For Hammer Number	Price Each
690	$\frac{1}{4}$ lb.	\$1.25	690-A	690	\$0.40
691	$\frac{1}{2}$ lb.	1.70	691-A	691	.50
692	1 lb.	2.00	692-A	692	.50

Our Tool Salesmen Are Also Tool Service Men

Vacuum Grip Pliers

BUILT to the Highest Attainable Quality Standards. Recognized by particular mechanics the world over as a true quality line, and known everywhere for their remarkable strength and durability.

Hammer-forged from special high carbon Silico-Molybdenum alloy tool steel—NOT CASE HARDENED on surface only—but hardened and tempered thru and thru.



Heavy Duty Gripping Pliers



Powerful gripping pliers adaptable to all general types of plier work, and especially suitable for all such jobs as turning any shaped nut, bolt, rod, etc. The geared joint, a new and patented principle, permits six quick jaw adjustments from $\frac{1}{4}$ " to $1\frac{1}{2}$ " openings—parallel at all openings. Teeth set at a backward (Stillson Wrench) angle hold any object in a powerful grip... lets you work in cramped places with short strokes. Head set at 45° angle is likewise valuable for getting action in otherwise inaccessible places.

No. 9—9" Heavy Duty Gripping Pliers. Each.....\$2.00

Ignition Pliers



No. 105—Midget Pliers built on the same gripping principle as the No. 9 described above, but featuring the standard three point adjustable slide joint. It is a dandy tool for servicing those small carburetor, ignition, and electrical jobs.

No. 105 Ignition Pliers—5" long. Each.....\$1.25

Midget Handy Gripping Pliers

A useful little pair of pliers that can be used to excellent advantage on all extremely small work, radio, electrical, small bench jobs, etc. Has full fashioned handles.

No. 5—4 $\frac{1}{2}$ " Midget Gripping Pliers. Each.....\$0.85



General Use Pliers



Combines tremendous gripping power with a cutting capacity equal to Lineman pattern pliers. Adjustable slide joint, bow handles.

No. 34—4 $\frac{1}{2}$ ". Each.....\$1.25

No. 35—5". Each.....1.60

No. 36—6". Each.....1.75

Same head design as No. 35, but having full fashioned handles.

No. 137—7". Each....\$2.00



Heavy Duty Pliers



A giant for gripping. Has wire cutter and adjustable slide joint.

No. 47—7". Each....\$1.50

No. 49—9". Each... 2.25

Super-Quality Tools of a Thousand Uses

Vacuum Grip Pliers—Cont'd

The Aviator



Capacity far exceeds size. Thin nose; side wire cutters; adjustable joint. Very popular with airplane mechanics.

No. 65—5'. Each \$1.50

Heavy Duty Gripping Pliers

For general purpose work where plenty of gripping power is needed. Grips like a pipe wrench. Has a 3 position adjustable slide joint.

No. 61—6'. Each \$1.25

No. 62—8'. Each 1.50



Lineman Pliers



A powerfully built tool for gripping, twisting, hammering and cutting. Full fashioned handles afford a comfortable screw grip.

No. 57-R—7'. Each . . . \$2.50

No. 58-R—8'. Each . . . 3.25

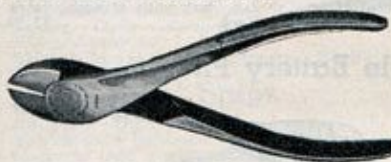
Heavy Duty Diagonal Cutters, Fashioned Handles

Powerful cutting nipper. No. 87 for cotter pin work and other tough cutting jobs.

No. 85—4½'. Each \$1.65

No. 86—6'. Each 2.00

No. 87—7'. Each 2.50



Diagonal Cutters

Bow handle, heavy duty pattern.

No. 386—6'. Each \$1.65

End Cutters

A very efficient tool for many cutting operations.

No. 17—7'. Each \$1.90



Brake Pliers



For adjusting the knurled adjusting nut on Steeldraulic brakes.

No. 14-B—For Steeldraulic brakes all cars except 1931 and earlier Oakland, Pontiac and Auburn. Each . . . \$1.50

Grippers, Cutters, Special Pliers—We Have Them All

Vacuum Grip Pliers—Cont'd Needle Nose Pliers

Spring tempered, extremely durable.

No. 96—6". Without Wire Cutter. Each.....\$1.50

No. 196—6". With Wire Cutter. Each.....\$1.85

No. 197—7". With wire cutter. Full fashioned handles.

Each.....\$2.50



Nose of these pliers Not Guaranteed

Special Valve Pin Pliers



Matched grooves in jaw for tight-grip on valve pin; also cross milled groove.

No. 597—7". Each.....\$2.50

Nose of these pliers Not Guaranteed

Angle Nose Battery Pliers

This entire tool is much thinner than the standard type battery pliers and with the tapered jaws set at a 35° angle provides the strongest possible grip.

No. 308—7". Each.....\$1.50



Special Battery Pliers



Designed expressly for battery installation work. Grips the nuts firmly. Note the new offset jaws which provide knuckle clearance.

No. 7-A—7". Each.....\$1.50

No. 7—7". Same size as No. 7-A, but with straight jaws.

Each.....\$1.50

Adjustable Battery Pliers

Rounded nose, tapered two ways. Outstanding feature is the adjustable slide joint permitting two jaw openings, both parallel, maximum working opening 1 1/4". Useful also for gripping nuts, pipes, rods, etc.

No. 7-B—7". Each.....\$1.50



Battery Terminal Puller



Fills a long felt want . . . does away with the usual "wrestling match" that takes place when cable terminal and battery post corrode together. Jaws of special construction exert a powerful direct upward pull that gets action on the most stubborn cable terminal.

No. 512—12" overall length. Each.....\$2.25

Built to the Highest and Closest Standards

Brake Spring and Cotter Pin Pliers



For removing any size cotter pins and for removing or replacing brake springs on any car except Ford. (See page 77 for special Ford tool.)

Not guaranteed against breakage of hook.

No. 312—Each.....\$2.25

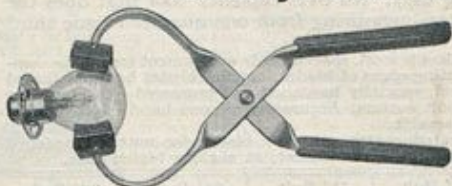
Brake Key Pliers

No. 70—A real handy tool for spreading the horse shoe type of brake key in order to remove them from the brake assembly. Tips of jaws are knurled to give a good gripping surface and prevent the tool from slipping. Don't chase these keys around with a screw driver—use this tool and do a quick job. Each...\$1.35



Not guaranteed against breakage of jaw tips.

Headlight Bulb Pliers



The thick, sponge-rubber lined transverse jaws securely hold the glass bulb itself instead of the metal base... this has proved by practical experience the best method of gripping the bulb. Pliers

that grip the metal base often cut the metal instead of turning it. The sponge rubber grips tightly without danger of breaking the bulb and makes it easy to remove or replace headlight bulbs... especially useful on late model cars... handles all present models.

GA-17—Headlight Bulb Pliers. Each.....\$0.50

Metal Cutting Shears



Designed primarily for the cutting of Duralumin, stainless steel and other tough sheet metals, this tool answers the demand in auto-

motive repair and service shops, tinner and plumber shops, etc., for a high grade compound leverage metal shears. Blades forged from alloy tool steel and leveled to permit cutting of inside and outside curves, as well as straight cutting. Lock washers prevent loosening of the nuts... tool can be locked in closed position.

BH-10—Metal Cutting Shears. Each.....\$3.45

Tinners' Snips

No. 7-TS—High grade tinners' snips, with carefully hardened and tempered blades to hold a sharp cutting edge. Pair.....\$1.25



Knock-off Wheel Pullers

WHILE we recommend the Universal Wheel Puller described on pages 122 and 123 for most efficient and simplest operation, we carry these Knock-off's for the convenience of those who require them. These pullers operate on the shock principle—simple and efficient and adaptable to practically all popular makes of cars. A $\frac{3}{8}$ " hole drilled through the puller provides an easy means of tightening by the use of a small bar. As these units are subject to abuse they are not guaranteed.



KO-5 Set—Including one each of the units listed below.....\$6.05
 KO-20—Thread size, $\frac{5}{8}$ ". Each......95
 KO-24—Thread size, $\frac{3}{4}$ ". Each.....1.10
 KO-28—Thread size, $\frac{7}{8}$ ". Each.....1.20
 KO-32—Thread size, 1". Each.....1.25
 KO-40—Thread size, $1\frac{1}{4}$ ". Each.....1.55

Pliers of all Types, for all Purposes

Snap-on

Vacuum Grip Bolt Cutters



SHOPS and mechanics who use Vacuum Grip Bolt Cutters unhesitatingly pronounce them to be the most powerful and durable cutters made. Built on the compound lever

principle which multiplies hand power tremendously, they make bolt and rivet cutting easy. An over-capacity tool that does the work of ordinary cutters measuring from one quarter to one third larger.

Handles built of best malleable steel, special blade adjustment screws for compensating for wear in cutting edges of blades, cutting blades hammer forged from finest alloy tool steel, specially hardened and tempered—the toughest ever put into a pair of bolt cutters. Accurately aligned hand edged blades. Blades and parts are replaceable.

Note: Specially heat-treated center cut type blades for cutting hardened materials can be furnished, on special order, at slightly higher cost.

Handle and Blade Stock Nos.	14" Bolt Cutter $\frac{1}{16}$ " Capacity		18" Bolt Cutter $\frac{3}{16}$ " Capacity		24" Bolt Cutter $\frac{1}{2}$ " Capacity		36" Bolt Cutter $\frac{3}{4}$ " Capacity	
	Stock No.	Price	Stock No.	Price	Stock No.	Price	Stock No.	Price
Complete with Side Cut Blades.....	314	\$4.00	318	\$5.00	324	\$6.50		
Handles.....	314-H	2.40	318-H	3.00	324-H	4.00	336-H	\$5.50
Side Cut Blades.....	314-SB	1.60	318-SB	2.00	324-SB	2.50	336-SB	3.50
Center Cut Blades.....	314-CB	1.85	318-CB	2.25	324-CB	2.75	336-CB	3.50
End Cut Blades.....	314-EB	2.00	318-EB	2.50	324-EB	3.00		
Diag. Cut Blades.....	314-DB	2.00	318-DB	2.50	324-DB	3.00		

For prices on replacement parts for Vacuum Grip Bolt Cutters write for special parts sheet.

Nut Splitter Blades

FOR use with the No. 114-H and No. 118-H Handles. Speeds up many jobs such as stripping off old fenders, etc. The 114 size take $\frac{1}{4}$ " and the 118 size $\frac{5}{16}$ " to $\frac{3}{8}$ " bolt nuts.

No. 114-CNSB—Center Cut Type.....	\$1.60
No. 114-ENSB—End Cut Type.....	2.00
No. 118-CNSB—Center Cut Type.....	2.00
No. 118-ENSB—End Cut Type.....	2.50



Special Replacement Blades

TO provide customers a service on replacement blades to fit popular makes of bolt cutters, we offer the following sizes and types. They are furnished complete as one unit ready for insertion into the handle.

No. 218-CB—18" Center Cut Type.....	\$2.25
No. 218-SB—18" Side Cut Type.....	2.00
No. 224-CB—24" Center Cut Type.....	2.75
No. 224-SB—24" Side Cut Type.....	2.50
$2\frac{1}{4}$ " between bolt hole centers on 24" size.	
No. 230-CB—30" Center Cut Type.....	3.50
$\frac{1}{16}$ " bolt hole, $2\frac{1}{16}$ " between bolt hole centers.	
No. 236-CB—36" Center Cut Type.....	3.50
$\frac{1}{2}$ " bolt hole, $2\frac{3}{4}$ " between bolt hole centers.	

Better Bolt Cutters Cannot Be Built

Blue-Point Feeler Gauges

BLADES of tested accuracy, finest imported ultra superior Swedish tempered steel. Gauges equipped with knurled nut permitting user to slide out the required blade and lock it in position, leaving other blades locked in handle.



No. 324

No. 324 Combination Gauge—Ideal for general purpose work. Ten fine blades for tappet work, etc., and fourteen narrow fingers for ignition work. Blades $2\frac{1}{2}$ " overall length in thicknesses: .003, .004, .005, .006, .007, .008, .010, .012, .013, and .015.

Fingers $1\frac{3}{4}$ " overall length in thicknesses: .008, .010, .012, .013, .015, .018, .020, .022, .024, .025, .028, .030, .032, .035.

No. 324 Gauge—Each.....\$1.75

No. 310 Ten Blade Gauge—Blades $3\frac{1}{2}$ " overall length in following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012, and .013. Each.....\$1.10



No. 310

No. 314 Ign. & Gap Gauge—Fourteen of the most necessary finger thicknesses. Fingers $1\frac{3}{4}$ " overall length in the following thicknesses: .008, .010, .012, .013, .015, .018, .020, .022, .024, .025, .028, .030, .032, .035. Each \$1.05

Extra $3\frac{1}{2}$ " Blades in regular thicknesses. Each...12½c
Extra $2\frac{1}{2}$ " Blades in regular thicknesses. Each...10c
Extra 2" Fingers in regular thicknesses. Each...10c
Extra $1\frac{3}{4}$ " Fingers in regular thicknesses. Each...10c
Special thicknesses of blades or fingers. Each...15c

Note: Blade measurements are given in all cases for overall length.



No. 314

No. 379 Special Chevrolet Feeler Gauge—Handles all Chevrolet work, including 1937 models. Contains four $\frac{1}{2}$ " wide blades—.006, .008, .013 and .032 thicknesses; three $\frac{1}{4}$ " fingers—.018, .024 and .040 thicknesses. Also a carburetor float depth gauge, tungsten file and 3" scale. A complete assortment of necessary gauges for Chevrolet mechanics. Each.....\$1.00



No. 359 Ford "Go and No-Go" Feeler Gauge—Especially designed for Ford service work. Contains one each of the following—.025" for spark

plug on model "B" and V-8, .022" for valves on model "B," .022" with narrow tip for distributor on models "A" and "B," .017" for valves on model "A," .016" for V-8 distributor, .014" with narrow end for V-8 distributor, .014" for all valves on V-8, .013" for valves on models "A" and "B," and .035" for spark plug on model "A." Each.....\$1.00



Feeler Gauge Holder

HOLDS two thicknesses of feeler gauge stock in 12" lengths. The two sections pivot together or swing around in opposite directions and lock in either position. Sliding ferrule holds feeler stock tight in holder.

No. 316 Feeler Gauge Holder—Each.....\$0.75
12" Strips—Any thickness, .0015 to .060, width $\frac{1}{2}$ ". Each.....25c

Note: As importers of this stock direct from Sweden, we are able to furnish it to large users in 12" strips or in bulk.

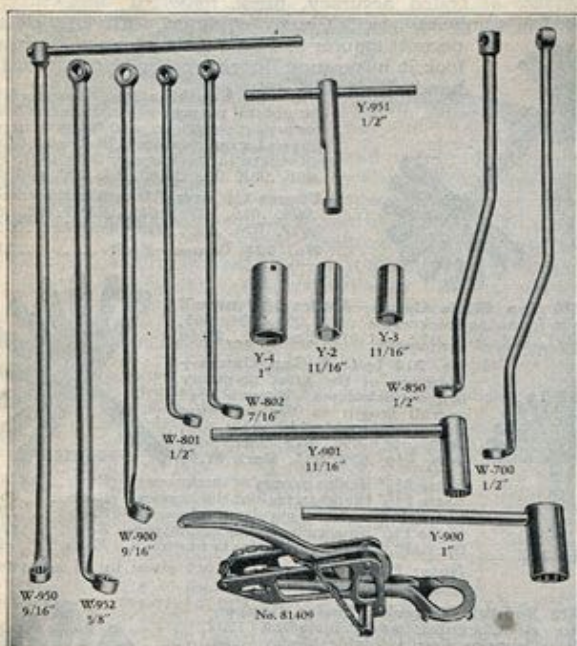
Prices in any required thickness will be furnished upon request.

Feeler Gauges cannot be guaranteed.



We Use Only the Finest Swedish Steel for Feeler Blades

Special Airplane Tools



Continental Motors

W-700— $\frac{1}{2}$ " opening (with bar), cylinder base bolt nuts. 15" long. Each \$2.50

LeBlond Motors

W-801— $\frac{1}{2}$ " opening (with bar), cylinder base bolt nuts. 12" long. Each \$2.00

W-802— $\frac{7}{16}$ " opening (with bar), cylinder base bolt nuts. 12" long. Each 1.85

Pratt and Whitney Motors

W-900— $\frac{9}{16}$ " opening, cylinder base bolt nuts. 17 $\frac{1}{4}$ ". Each \$2.25

Warner Motors

W-850— $\frac{1}{2}$ " opening (with bar), cylinder base bolt nuts. 12 $\frac{15}{16}$ ". Each \$2.75

Wright Motors

W-950— $\frac{9}{16}$ " opening, cylinder base nuts, models J-5 and R-975. 19 $\frac{3}{4}$ ". Each \$2.50

W-952— $\frac{5}{8}$ " opening (with bar), cyl. base bolt nuts. 19 $\frac{1}{8}$ " long. Each 2.75

Y-951— $\frac{1}{2}$ " opening, for rocker arm housing stud nut. 5" depth. Not guaranteed. Each 1.50

No. 81409—Valve Spring Compressor for Wright Whirlwind Motors. Length 9", width 2", height 2 $\frac{3}{4}$ ". Each 4.95

Miscellaneous

Y-900—1" opening, for model IXA B-G Aviation Plugs. 9" long, 1 $\frac{5}{8}$ " offset. Each \$0.90

Y-901— $\frac{11}{16}$ " opening, for model 4-B B-G 18mm Spark Plugs. 9" long, 1 $\frac{5}{8}$ " offset. Each .90

Y-2 — $\frac{11}{16}$ " Spark Plug Socket, 2 $\frac{3}{4}$ " overall length. Each .80

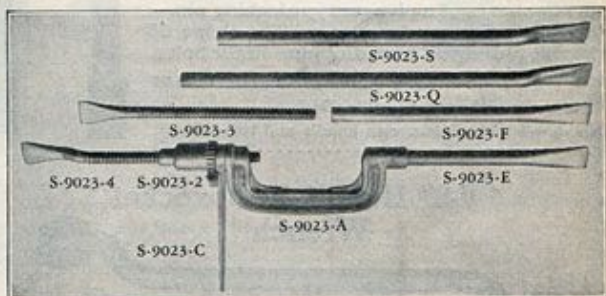
Y-3 — $\frac{11}{16}$ " Spark Plug Socket, 2 $\frac{1}{2}$ " overall length. Each .75

Y-4 —1" Spark Plug Socket, 2 $\frac{3}{4}$ " overall length. Each 1.30

Tool Users Appreciate Our Specialized Service

Ford Spring Spreader

THE most easily adjusted, fastest and simplest to use tool developed for removing and replacing Ford springs. It is adaptable to all models from "T" to the latest V-8, trucks included. Parts are locked together to form one rigid tool, and one man can easily and quickly handle any job. It only takes a few seconds to get the tool ready and you'll have the job finished faster than you ever did it before.



1. Handles both front and rear springs—all models.
2. Simple in design and operation—easy to handle.
3. It's speedy—takes only one man's time.
4. Reverse action, ball-bearing ratchet works freely under any pressure.
5. Pays for itself in the first few jobs.
6. All parts made of finest materials, heat treated to give maximum strength. Screw machined accurately with low pitch thread for easy ratchet action and powerful leverage.

One big feature of this tool is the ball bearing ratchet assembly which takes the thrust from both ends. No matter how much pressure is applied the ratcheting action always works freely. Reverse action is obtained by swinging the ratchet pawl from one side of the handle to the other.

Raise the body of the car so that the weight is taken off the spring. Insert flattened end of Spreader under the spring shackle bolt eyelets and apply ratchet action until spring has spread enough to permit removing or inserting shackle bolts.

List of Parts of S-9023-36 Set

S-9023-A—Yoke	\$4.65
S-9023-2—Ratchet Nut	2.60
S-9023-C—Ratchet Handle	2.35
S-9023-3—Straight Screw	1.90
S-9023-4—Offset Screw	1.90
S-9023-E—21" Straight Tube ..	1.60
S-9023-F—17½" Straight Tube	1.50
S-9023-S—33" Offset Tube	2.40
S-9023-Q—28½" Offset Tube ..	1.80

Parts for S-9023 (Earlier Model)

S-9023-DA—Offset Screw	\$1.85
S-9023-D—Straight Screw	1.85
S-9023-B—Ratchet Nut	2.70

S-9023-36 Complete Spring Spreader Set

Complete with one each of all the parts listed except DA, D and B. Handles all Ford cars and trucks. S-9023-36. Set

\$20.70

SV-9023 "V-8" Ford Spring Spreader Set

Handles all V-8 models ... consists of the following parts: S-9023-2, S-9023-C, S-9023-4, S-9023-S and S-9023-Q. The ideal outfit for servicing V-8 models. SV-9023 Set

\$11.05

A One-Man Tool at a Small Shop Price

Special Ford Tools

Main Bearing Bolt Holder for V-8

Used on the V-8 engine to hold the main bearing bolts from turning while adjustments are being made and the nuts being tightened. The tool consists of a special curved, double end handle and two $\frac{9}{16}$ " square sockets. Sockets lock on the handle by means of a plunger type locking pin—cannot slip off—easy to remove. The shape of the handle prevents it from dropping off the bolts.

S-9022— $\frac{9}{16}$ " square socket (not guaranteed). Each \$0.65

S-9022-A—Special curved handle. Each..... .95

S-9022-X—Tool complete with handle and two sockets. Each..... \$2.25



"V-8" Headlight Boxocket Wrench



Has $1\frac{1}{16}$ " slotted opening on one end for 1933-'34 V-8 Headlights and $1\frac{1}{8}$ " slotted opening on the other end for 1935 V-8 Headlights. The slotted openings permit placing the wrench over the adjusting nut without disconnecting the wiring. Can also be used on Hudson-Terraplane models. An indispensable tool in every repair shop. 11" long.
S-9089—V-8 Headlight Adjusting Wrench. Each..... \$2.00

V-8 Shock Absorber Filler Plug Wrench for 1935-'36 Models

A ratcheting Boxocket with $\frac{3}{16}$ " hexagon and $\frac{1}{4}$ " square openings designed expressly for 1935-'36 Ford V-8 shock absorber filler plug. S-9075 Wrench, shown above, will not work on these models. There is not much clearance on the job and this ratchet is indispensable.



S-9038—Filler Plug Ratchet Wrench..... \$1.95

"V-8" Gas Tank Turret Wrench



To prevent leakage at the joint between the filler neck and the Gas Tank, the Turret nut must be kept tight. It is impossible to tighten this nut without the proper wrench as it is built of soft material and easily damaged. This connection must be disconnected also when removing and replacing the left rear fender.

S-9070—Gas Tank Turret Wrench. Each..... \$1.00

Brake Adjusting Wrench



S-9078-A—For speeding up brake adjusting work on model "A" and "AA" Ford cars and trucks. Square openings $\frac{7}{16}$ " and $1\frac{1}{32}$ ", 11" long, providing ample leverage and accessibility to all brakes. Each..... \$1.35

Ford Mechanics Need These Special Tools

Ford Valve Bushing Removers & Grinding Bushings



S-9010 S-9011

SIMPLE and easy to use, without danger of injury to valve stem, bushings or guide hole. Simply remove spring and raise valve. Drop Bushing Remover No. S-9010 around the valve stem. Tap valve lightly from the top to dislodge the



NSV-9010

SV-9011

two sections of bushings. When bushing is out, remove valve from block, take S-9011 Grinding Bushing, which is made in two sections and held together by a spring clip. Snap valve stem into Grinding Bushing. Insert the assembly in guide hole for grinding operation. These tools offer the correct and least expensive way to handle the operation.

S-9010—Ford Valve Bushing Remover. Each.....75c
 S-9011—Ford Grinding Bushing. Each.....75c
 S-9011-S—Extra Spring for above. Each.....5c

Special Units for Model "V-8"

NSV-9010—V-8 Valve Bushing Remover. Each.....60c
 SV-9011—V-8 Grinding Bushing. Each.....75c
 SV-9011-S—Extra spring for SV-9011. Each.....5c

Special Unit for 60 H. P. "V-8" Motor

SJ-9011—Grinding Bushing. Intended expressly for the small 60 H. P. "V-8" motor. Each.....\$0.75

Note: The Grinding Bushings are worth their cost merely for their convenience in setting tappets.



SJ-9011

V-8 Valve Spring Compressor and Assembly Tool



An efficient tool for assembling the V-8 Ford Valve units ready for insertion into the motor block. Every Ford shop needs a tool of this kind as the V-8 valve assemblies must be made before they are replaced in the block, and this little tool makes it a quick and easy operation. The valve is placed, head down, in the tool and the bushing and spring put into position. Downward pressure on the handle will compress the spring enough to provide room for replacing the small horse shoe key.

S-9071—Ford Assembly Tool. Each.....\$2.00

V-8 Valve Assembly Puller



COMPRESS the spring . . . slip this puller into position . . . tighten the nut —1-2-3—it's just as easy as that. No more broken valve lifters, broken parts or bruised fingers. The housing

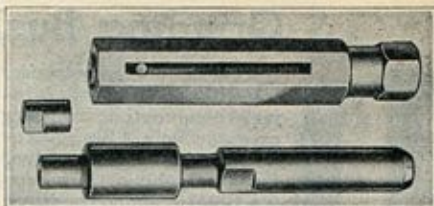
of the tool is cut at an angle to rest on the motor block and insure a direct pull. Puller head is machined to fit under the valve head. Pressure is applied to the $\frac{1}{8}$ " hardened nut and $\frac{1}{4}$ " screw, and the gradually increasing leverage will pull the tightest assembly.

S-9095 Valve Assembly Puller. Each.....\$3.25

Time Savers in Every Ford Shop

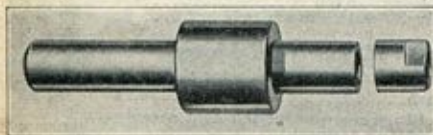
V-8 Perch and Spring Bushing Tool

BUILT to pull the tightest shackle bushing... simple construction... fast, safe and easy to use. Services all perch and spring shackle bushings on Ford passenger cars, including those on the latest V-8 models. Complete instructions for use included with each tool. Pull 'em or drive 'em out with this outfit.



S-9090-C—Ford Shackle Bushing Puller only.....	\$4.50
S-9090-BC—Pulling and Driving Set Complete.....	8.25
Puller Parts	
S-9090-C-1—Puller Body.....	2.40
S-9090-C-2—Puller Screw.....	1.40
S-9090-C-3—Puller Screw Nut.....	1.00
S-9090-C-4—Puller Screw Pin.....	.15
Driver Parts	
S-9090-B-1—Driver only.....	2.00
S-9090-B-2—Driver Collar only.....	1.00
S-9090-B-3— $\frac{3}{8}$ " Hardened Washer only.....	.10
S-9090-C-5—Pilot Thrust Nut.....	.75

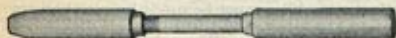
Ford Truck Shackle Bushing Driver



HANDLES the $1\frac{1}{8}$ " shackle bushings on all Ford trucks since 1932 models. Used for removing old and inserting new bushings. All parts fit properly and have plenty of strength to handle these heavier jobs.

S-9090-K—Truck Driving Set.....	\$4.40
Driver Parts	
S-9090-K-1—Driving Punch.....	2.40
S-9090-K-2—Sleeve.....	1.25
S-9090-K-3—Thrust Nut.....	1.00

Piston Pin Removers and Inserters



S-9026 For Model V-8

To remove pin, insert the shank through the pin and screw the nose on until tool is set tightly in the pin. Tap the nose with a hammer to jar the locking ring loose and the pin is easily withdrawn.

To insert pin in piston, assemble the pin in the tool in above manner, heat the piston to expand pin hole, insert nose of tool and tap it through piston and connecting rod bearing until the locking ring seats itself and pin is in place.

S-9026—Piston Pin Tool for V-8 Models. Each.....	\$1.65
S-9005—Piston Pin Tool for all Model A's. Each.....	2.45

Shock Absorber Link Separator



Provides ample strength and leverage to withstand the prying action necessary to separate shock absorber links and tie rod joints on V-8 car. It will not handle Ford trucks. 19" overall length. Insert the wedged shaped fork between the link and the arm and use hammer on end of the bar.

S-9092. Each.....	\$1.95
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Snap-On Brings a Regular Service to Your Shop

Ford Hub Bolt Set Punches

These are an improved type and much easier to use than the ordinary hub bolt set punch. The end is cross milled to form four notches and by turning the punch for each hammer blow the notches quickly spread the metal and firmly set the bolts without excessive use of hammer.



- S-9016—For passenger cars, $\frac{3}{8}$ " diameter, $5\frac{1}{2}$ " long. Each.....\$1.25
 S-9017—For trucks, $1\frac{1}{8}$ " diameter, $5\frac{1}{2}$ " long. Each..... 1.65

Ford Oil Pan Holding Screws

These tools will positively save time and labor while replacing oil pans on Ford cars. Insert the screws into bolt holes on opposite sides of the crank case flange. Lift the oil pan up over the screws so that the springs catch the flange and hold it in place. Both hands are then free to replace the bolts.



- S-9080—Each (2 required)20c

Generator Bearing Adjusting Socket

The removal of the fan pulley and spring lock gives access to the Timken Bearing at the front of the V-8 generator. The slotted nut is then tightened with this pronged socket.



- S-9040 Socket. Each.....70c

Main Bearing Sockets

- S-9039—A single broached square $\frac{3}{8}$ " socket for Ford main bearing work. Each.....50c
 S-9024—Double broached $\frac{3}{4}$ " hexagon socket for rear main bearings. Each.....55c



Ford Truck Brake Cam Socket

S-9039

- S-9004—Special Heavy, Straight Walled Socket with $\frac{1}{2}$ " single broached square opening for adjusting brake cam on Ford trucks. Each.....60c



S-9004

Ford "V-8" Conn. Rod Socket

- S-9025—A specially designed $\frac{3}{8}$ " Double Hexagon Socket for connecting rod bearing work on model V-8. Standard sockets will not handle this job. Each.....60c
 S-9001— $\frac{3}{8}$ " double hex socket for Model "A" conn. rods. Each.....55c



S-9025

Ford Fan Pulley Socket

- S-9006—A special $1\frac{3}{8}$ " Hexagon Socket for use on the regular Ford starting crank to service the crank jaw and fan pulley nut, permitting this operation to be performed without removing the radiator. Each.....\$1.40



S-9006



S-9002

Brake Cam Socket for Ford Cars

- S-9002—Special Heavy, Straight Walled Socket with $\frac{1}{2}$ " single broached square opening for adjusting brake cam on Ford passenger cars. Each.....55c

Ford Brake Pliers

- S-9068—Special Brake Pliers for removing the spring from the brake shoe. This tool cannot be guaranteed against breakage. Each..\$1.50

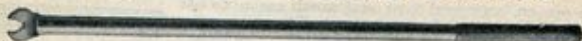


Ford Tools Not Illustrated

- S-9031—Carburetor Valve Jet Wrench. Each.....\$0.85
 S-9033— $\frac{15}{16}$ " Slotted Hex Socket for servicing V-8 1933-34 headlights. Each......90
 S-9037— $1\frac{1}{8}$ " Slotted Hex Socket for servicing V-8 1935 headlights. Each 1.05

Let "Snap-on" Show You These Specials

Ford "V-8" Valve Lifters



WE offer this tool to those Ford mechanics who prefer the bar type Valve Lifter for V-8 models. The offset head and double slot enable its use on both upper and lower compressing jobs on all V-8 Valve Springs. Overall length of these tools is 24".

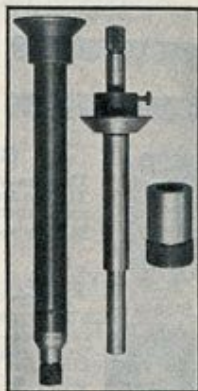
S-9088—Ford Valve Lifter. Each.....\$1.95
 SJ-9088—Valve lifter for V-8 60 H. P. motor. Each.....\$1.95

Micrometer Gauges for Ford Valves

QUICK, accurate and easy to use. Kinks and buckles form in a feeler gauge and prevent getting the correct clearance, but this micrometer gauge is accurate to a fraction of a thousandth. Micrometer setting is graduated in .001 of an inch. No more guesswork—no thickness gauge required—does the job in half the usual time required. All parts of this tool are machined to precision standard and complete directions for its use are enclosed with each tool. Every Ford shop can save time and turn out better valve jobs by using this special gauge.

MG-1—Ford Valve Micrometer Gauge complete.....\$4.75

MG-2—Valve Micrometer Gauge for 60 H.P. Ford V-8 motor. Complete.....\$4.75



Ford Oil Gauge Wrench

S-9093—Special $\frac{3}{8}$ " wrench for servicing or installing oil pressure gauges on V-8 models. This thin, open end, crow-foot wrench clears all obstructions and does a quick, easy job. Every Ford shop needs this tool. 8 $\frac{1}{4}$ " overall length. Each.....\$1.35

Cotter Pin Puller

S-9094—Especially useful on V-8 brakes, steering mechanism and hand brake transmission, etc. Hook end is inserted in cotter pin eye and a few sharp blows struck on flat inside of the anvil end... Pulls the most stubborn pin. Not guaranteed against breakage. 9 $\frac{1}{4}$ " overall length. Each.....95c

S-9065— $\frac{3}{4}$ " Ell type Rear Main Bearing Wrench for Model "A". Handle end milled with $\frac{1}{2}$ " square to accommodate standard sockets. Each...\$1.85

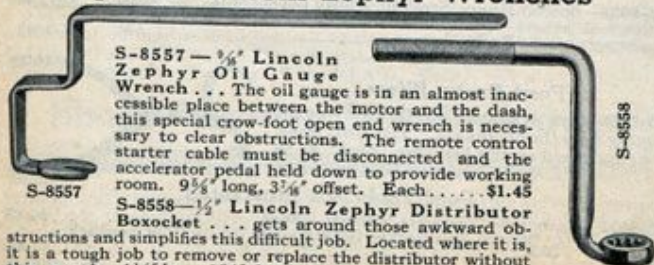
S-9082—Special tool for adjusting Fan Belt on V-8 Ford and Water Pump Nut on 1935 Pontiacs. Each.....\$0.75

Special Lincoln Zephyr Wrenches

S-8557— $\frac{3}{8}$ " Lincoln Zephyr Oil Gauge

Wrench... The oil gauge is in an almost inaccessible place between the motor and the dash, this special crow-foot open end wrench is necessary to clear obstructions. The remote control starter cable must be disconnected and the accelerator pedal held down to provide working room. 9 $\frac{5}{8}$ " long, 3 $\frac{3}{8}$ " offset. Each.....\$1.45

S-8558— $\frac{1}{2}$ " Lincoln Zephyr Distributor Boxsocket... gets around those awkward obstructions and simplifies this difficult job. Located where it is, it is a tough job to remove or replace the distributor without this wrench. 4 $\frac{1}{2}$ " long, 3 $\frac{3}{8}$ " depth of offset. Each.....95c



A Specialized Service for Every Industry

Buick Tools for 1937 Models

Steering Eccentric Wrench

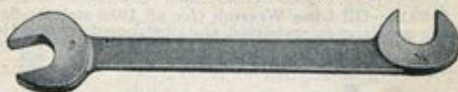


S-9820—Special $1\frac{1}{8}$ " and $1\frac{1}{4}$ " Boxocket Wrench—for steering eccentric screw ($1\frac{1}{8}$ " end) of 1937 Models Nos. 80 and 90—for steering worm adjusting lock nut ($1\frac{1}{4}$ " end) of 1937 Models Nos. 40, 60, 80, and 90—for steering eccentric lock nut ($1\frac{1}{4}$ " end) of 1937 Models Nos. 40 and 60. $12\frac{3}{4}$ " overall length. Each.....\$2.80

Brake Cylinder Wrench

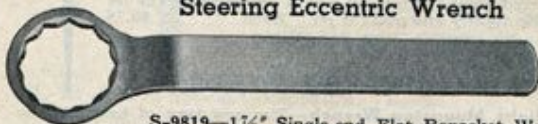
S-9817— $1\frac{1}{16}$ " Open End Crow-foot Wrench... designed to service the brake cylinder filler plug on 1937 Buick model 40. 8" overall length, $5\frac{3}{8}$ " depth of offset. Each.....\$2.10

Shock Absorber Wrench



S-9818— $\frac{3}{4}$ " Double Open End Wrench... this tool has the same opening on both the 90° and 15° heads and is ideal for servicing the rear bolts on rear shock absorbers on 1937 models 40 and 60. $9\frac{3}{8}$ " overall length. Each.....\$1.70

Steering Eccentric Wrench



S-9819— $1\frac{1}{8}$ " Single-end Flat Boxocket Wrench... for servicing the steering eccentric lock nut on 1937 models 80 and 90. Handle is offset to clear obstructions. $11\frac{1}{4}$ " overall length. Each.....\$2.90

Clutch Wrench

S-9816— $\frac{3}{4}$ " Single Open End Wrench... designed to service the clutch yoke ball stud nut on 1937 models 40, 60, 80 and 90. $5\frac{3}{8}$ " overall length. Each.....\$1.45



Engine Mounting Wrench



S-9899—Heavy Duty $1\frac{1}{8}$ " Single Open End Wrench for the front engine mounting bolt on 1937 Models 40 and 60. $6\frac{3}{4}$ " overall length. Each...\$1.75

Spark Plug Socket

S-9803-A—Special $\frac{3}{8}$ " extra deep hexagon socket for removing or replacing spark plugs on all series 1936 and earlier. Each.....\$1.20



These Wrenches Answer a Popular Demand

Special Buick Tools

Cylinder Head Stud Bolt Wrenches

2513-C— $\frac{3}{8}$ " Special Boxocket Wrench for cylinder head bolts on all 1936 series. Wrenches built for previous models will not work on the 1936 models. Each.....\$2.45

2513-A—A wrench of special design, one end with a $\frac{3}{8}$ " double broached box type opening, and the other end a $\frac{3}{8}$ " crowfoot. Reaches with ease cylinder head stud bolts from the right hand side. Much

easier to use than other wrenches which make it necessary to work from both sides. For all models except 1936 series. Each.....\$2.45

1936 Series Oil Line Wrench

S-9813—Oil Line Wrench (for all 1936 series). Space for turning the nut is very restricted and obstructed on the 1936 models, and this special wrench is required for the job. $\frac{3}{8}$ " and $\frac{1}{2}$ " openings. Each arm is $5\frac{1}{2}$ " long. Each.....\$1.75

Carburetor Main Jet Puller

S-9809—Special tool for pulling the main discharge jet on all 1936 series. The tapered point is threaded and is screwed into the jet far enough to grip tightly and pull the jet. Each.....\$0.75

Headlight Mounting Wrench

S-9812—Headlight Mounting Wrench—The new type of headlights require a special tool of this design for tightening or removing the headlights. It's a time saver for any Buick shop. $9\frac{1}{2}$ " Overall length. Each.....\$1.35

Steering Gear Wrench

S-9876-A— $1\frac{1}{8}$ " Boxocket type wrench designed for adjusting steering gear eccentric on all 8 cylinder models. This has a very thin head and cannot be guaranteed. $8\frac{1}{2}$ " Overall length. Each.....\$1.25

Steering Eccentric Wrench

S-9597-B—Special $\frac{3}{8}$ " single end Boxocket Wrench designed for steering eccentric adjusting on 1935 and 1936 series 40 only. $6\frac{1}{8}$ " Overall length. Each.....\$0.90

Steering Gear Housing Wrench

S-9599-A— $\frac{5}{8}$ " and $\frac{3}{4}$ " Boxocket Wrench needed for the steering gear housing on series 40, 1935 and 1936 models. Wrench heads are offset at exactly the right angle for a quick adjusting job. $9\frac{3}{4}$ " Overall length. Each.....\$1.35

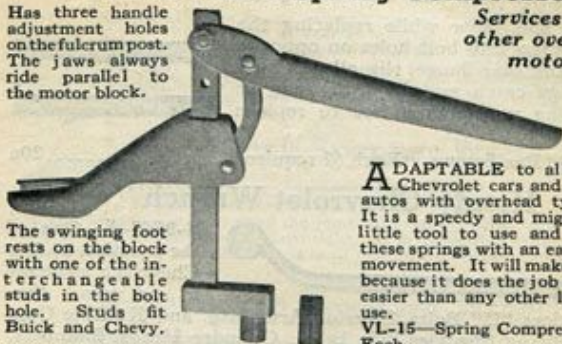
Our Specialized Tool Service Makes Many Friends

Special Buick & Chevy Tool

VL-15 Valve Spring Compressor

Has three handle adjustment holes on the fulcrum post. The jaws always ride parallel to the motor block.

Serves many other overhead motors

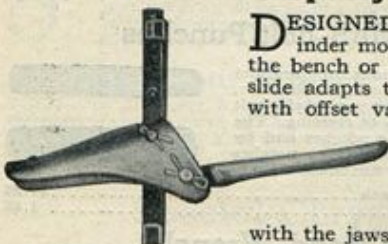


The swinging foot rests on the block with one of the interchangeable studs in the bolt hole. Studs fit Buick and Chevy.

ADAPTABLE to all Buick and Chevrolet cars and many other autos with overhead type engines. It is a speedy and mighty efficient little tool to use and compresses these springs with an easy one-hand movement. It will make you money because it does the job quicker and easier than any other lifter now in use.

VL-15—Spring Compressor
Each \$2.00

VL-12 Valve Spring Compressor



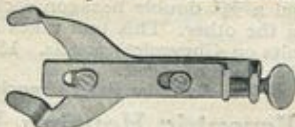
DESIGNED to fit all Chevrolet six cylinder models. Works well either on the bench or on the motor. Adjustment slide adapts the tool to the 1934 series with offset valves. For 1935 and 1936 models use the top pivot hole. The rounded end of the square post is set in one of the cylinder head bolt holes,

with the jaws resting on the spring cap, and then the handle is depressed as far as

possible. The tool will stay locked in this position.

VL-12—Valve Spring Compressor. Each \$1.00

Universal Joint Assembly Tool



S-9580—Holds the inner section of the universal joint securely in position while the joint is being assembled. Once the tool is in place both hands are left free to do the actual assembly work. It is a very simple matter to

slip the engaging jaws under the universal section and screw tightly the middle sliding jaw. Quick—efficient—easy to use. No more fussing and cussing on this tricky operation. The tool can also be used on Pontiac universals. Each \$1.25

Chevy Truck Trunnion Bushing Punch



S-9510—Whenever doing a truck clutch, transmission or any job

requiring dropping the drive shaft, this tool is needed. The tapered end is slipped through the universal joint to drive out opposite bushing . . . Saves fussing around with makeshifts. 7 $\frac{1}{2}$ " overall length. Each 75c

Special Tools Make Those Tough Jobs Easy

Special Chevrolet Tools

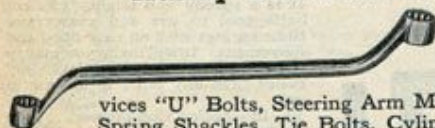
Oil Pan Holding Screws

Save time and labor while replacing the oil pan. Screw into bolt holes on opposite sides of crank case flange, slip oil pan over until springs catch and hold the pan in place leaving your hands free to replace the bolts.



S-9595—Oil Pan Screws. Each (2 required).....20c

Handy Chevrolet Wrench



S-9562-A—One of the handiest tools a Chevrolet mechanic can own. Ser-

vices "U" Bolts, Steering Arm Mtg. and Knuckle Cap, Spring Shackles, Tie Bolts, Cylinder Heads, Bumpers, Headlight Adjusting and many other important jobs. $\frac{5}{8}$ " and $\frac{3}{4}$ " sizes on each tool. 13 $\frac{3}{8}$ " Overall length. Each.....\$1.95

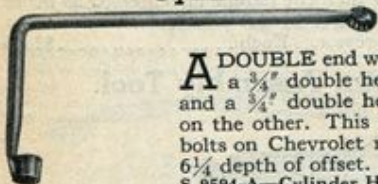
Chevrolet Hub Bolt Punches

In replacing or tightening hub bolts on Chevrolet wire wheels it is necessary to rivet over the shoulder. Slip this punch over the threaded part of the bolt and it will do a quick, easy job of riveting. The end is cross milled to form four notches and by turning the punch for each blow these notches quickly spread the metal and set the bolt.



S-9505—For passenger cars. Each.....\$1.25
S-9508—For trucks. Each.....1.65

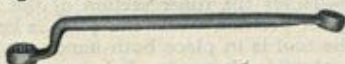
Cylinder Head Wrench



A DOUBLE end wrench of special design with a $\frac{3}{4}$ " double hexagon boxocket on one end and a $\frac{3}{4}$ " double hexagon socket type opening on the other. This tool takes all cylinder head bolts on Chevrolet models. 15" Overall length, 6 $\frac{1}{4}$ " depth of offset.

S-9594-A—Cylinder Head Wrench. Each.....\$2.35

Steering Eccentric Housing Wrench



For use on the Chevrolet Eccentric Lock Nut when adjusting the steering eccentric. $\frac{5}{8}$ " and $\frac{3}{4}$ " openings. This tool should be used with S-9597-B shown below when making adjustments. 9 $\frac{1}{2}$ " Overall length.

S-9599-A—Steering Eccentric Housing Wrench.....\$1.35

Steering Eccentric Wrench



$\frac{3}{8}$ " Boxocket for quickly and easily adjusting the steering eccentric nut on all 1935 Chevrolet models. Should be used with S-9599-A shown above when making adjustments. 6 $\frac{1}{2}$ " Overall length.

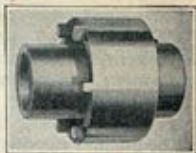
S-9597-B—Steering Eccentric Wrench.....\$0.90

Ask Snap-on "What New in Tools?"

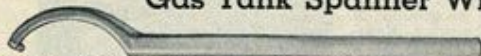
Special Chevrolet Tools

Axle Bearing Socket

S-9511—Special Chevrolet Truck rear axle bearing adjusting socket. The prongs fit exactly into the slotted collar which is threaded on the axle housing. Worn bearings must be adjusted by means of this collar after the axle is removed. The tubular sleeve fits into the axle housing and keeps the tool in alignment. Each.....\$4.75

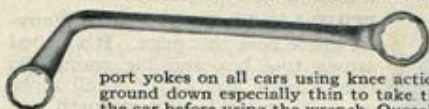


Gas Tank Spanner Wrench



S-9563—To prevent leakage at the joint between the filler neck and the Gas Tank, the Turret nut must be kept tight. It is impossible to tighten this nut without the proper wrench, as it is built of soft material and easily damaged. Each.....\$1.00

Knee Action Boxsocket Wrench



port yokes on all cars using knee action. The $1\frac{1}{4}$ " end has been ground down especially thin to take the Chevrolet job. Jack up the car before using the wrench. Overall length $15\frac{3}{4}$ ". Each.\$2.50

S-9598— $1\frac{1}{4}$ " and $1\frac{1}{8}$ " openings. Designed to service the large nuts in the steering knuckle support yokes on all cars using knee action. The $1\frac{1}{4}$ " end has been ground down especially thin to take the Chevrolet job. Jack up the car before using the wrench. Overall length $15\frac{3}{4}$ ". Each.\$2.50

Steering Gear Wrench

S-9597— $1\frac{1}{8}$ " Boxsocket Wrench for servicing the steering gear eccentric on Chevrolet. Also takes Pontiac and Buick 50 series. Due to the special thin design, this tool cannot be guaranteed. Overall length $5\frac{1}{2}$ ". Each.\$1.20



Special Chrysler Tools

Main Bearing Oil Seal Wrench and

Packing Hook



removing and replacing Oil Seal on the above cars without removing the flywheel and transmission. Cap Screws can be loosened with the Oil Seal Wrench and packing removed with the hook. To replace the packing: insert upper half as far as possible with the fingers and hook it the rest of the way with the hook. You can cut four hours off the actual working time with these tools.

S-9456—Oil Seal Wrench. Overall length $11\frac{1}{4}$ ". Each.....\$1.50
S-9457—Oil Seal Packing Hook. Overall length $9\frac{3}{4}$ ". Each..... .50

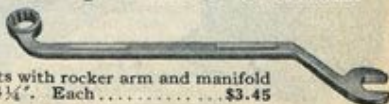
Plymouth—Dodge—DeSoto Wrench



S-9363—A special $\frac{5}{8}$ " Boxsocket wrench shaped to clear obstructions when removing or replacing the starter on 1937 Plymouth, Dodge and DeSoto cars. Overall length $7\frac{3}{4}$ ", depth of offset $2\frac{5}{8}$ ". Each.....\$1.70

McCormick-Deering Tractor Wrench

B-1955—Combination $\frac{3}{8}$ " Boxsocket and Open End Wrench . . . Heads offset for easy operation in removing or tightening head bolts with rocker arm and manifold in position. Overall length $14\frac{1}{4}$ ". Each.....\$3.45



Snap-on—Blue-Point—A Regular Dependable Service

Snap-on

Snap-On MechaniKits

K-24 MechaniKit

BIG enough to accommodate the average mechanic's small tool equipment. A separate tool tray offers a convenient means of carrying necessary units right to the job. Fitted with strong hinges, two suitcase type fasteners and strong hasp for padlocking. It's the equal in quality of many boxes double the price. Measures 20" x 7 $\frac{3}{4}$ " x 5 $\frac{1}{2}$ ". Tray 19" x 7" x 2 $\frac{1}{4}$ ". Grey enamel finish. (Shipping weight 13 $\frac{1}{2}$ lbs.)



Price varies according to branch zone.

(Zone 1, \$4.15) (Zone 2, \$4.20) (Zone 3, \$4.25) (Zone 4, \$4.35) (Zone 5, \$4.60).

See Inside Back
Cover for Branch
Zones

K-25 MechaniKit

THE best box we ever built at anywhere near this price. It's a good strong tool box and big enough to take a good size kit of small tools. Spot welded for strength and fitted with three good hinges, large leather carrying handle, two fasteners and a sturdy lock hasp. Measures 21 $\frac{1}{4}$ " x 8 $\frac{3}{4}$ " x 7 $\frac{3}{4}$ ". Carrying tray holds the tools you need at hand on the job—4 compartments in tray. Tray 20 $\frac{1}{4}$ " x 8" x 3 $\frac{1}{4}$ ". Finished in grey enamel. (Shipping weight 15 $\frac{1}{2}$ lbs.)

Price varies according to branch zone.

(Zone 1, \$5.45) (Zone 2, \$5.50) (Zone 3, \$5.60)
(Zone 4, \$5.80) (Zone 5, \$6.15).

K-21 MechaniKit

NO OTHER box of its size can compare with K-21 MechaniKit for convenience, rugged strength and lasting qualities. Lid is gables shaped to give extra strength and room. Leather suitcase type handle. Partitioned tool tray No. KT-1, 3 $\frac{1}{4}$ " deep with strong metal carrying handle—a corking good tool carrier while you're at work. Two drawers of different depths allow you to segregate your tools. (Shipping weight 33 lbs.)

Measurements:

Case, 21" x 8 $\frac{3}{4}$ " x 11 $\frac{1}{4}$ "

KT-1 Tray, 20 $\frac{1}{4}$ " x 8" x 3 $\frac{1}{4}$ "

Top Drawer, 20 $\frac{1}{4}$ " x 7 $\frac{3}{4}$ " x 1 $\frac{1}{8}$ "

Bottom Drawer, 20 $\frac{1}{4}$ " x 7 $\frac{3}{4}$ " x 3"

Price complete varies according to branch zone.

(Zone 1, \$8.55) (Zone 2, \$8.70)

(Zone 3, \$8.75) (Zone 4, \$9.10)

(Zone 5, \$9.65).



KT-1

Tool Tray only,

Each.....\$1.45



*Built
like a house
for strength*

See Inside Back Cover for Branch Zones

Snap-On Handikits

THESE Handikit Tool Cases are made from auto body stock, well built and are very substantial. Handy to use—a real time and trouble saver. All tools are in sight and at your disposal at all times. All handikits finished in battleship grey duco enamel.



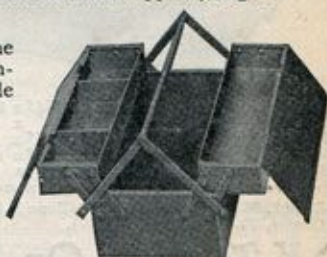
Junior Handikit

STURDILY constructed case especially designed for the junior mechanic or apprentice. Can be securely locked with a padlock. Good tools deserve to be protected—Lock your tools in this case and know they are safe. Plenty of room for new tools to be added. Size of case 14" x 8" x 6". (Shipping weight 7¼ lbs.)
K-9—Junior Handikit. \$2.50
 West of the Mississippi 10% higher

Senior Handikit

ADANDY tool case for the mechanic with a limited number of tools to carry around. Made of heavy gauge sheet steel, spot welded. Very strongly constructed and a real buy for any mechanic. Size of case, 16" x 8" x 7". (Shipping weight 10½ lbs.)

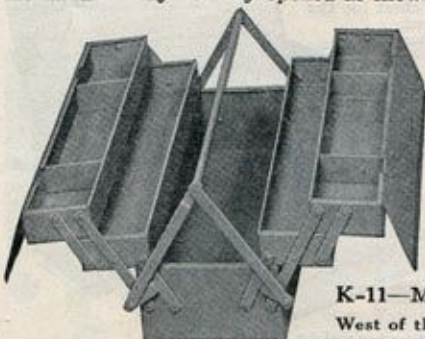
K-10—Senior Handikit. . \$5.00
 West of the Mississippi 10% higher



Master Handikit

SPECIALY designed to accommodate the complete working outfit of the master mechanic. Opens by a slight pressure on the handle. May be fully opened as shown or either side may be

opened as desired. Tools are easily accessible when case is open. Closes by simply taking hold of the handle and lifting the case. May be securely locked with a padlock. Size of case 19" x 8" x 7¾". (Shipping weight 17 lbs.)



K-11—Master Handikit. . \$8.15
 West of the Mississippi 10% higher

KT-2 Tote-Tray for K-22 and K-23



Fits inside the top compartment of the K-22 and K-23 MechanicChests . . . handle is hinged and folds down when the chest is closed and snaps rigidly into carrying position when in use . . . Partitioned to accommodate socket equipment. A real addition to your MechanicChest.

KT-2 Tray. Each. \$1.45

See Inside Back Cover for Branch Zones

K-22 Snap-On MechaniChest

Reg. U. S. Pat. Off.



ROOMY and long enough to hold those long nut spinner, speeders, sliding bars and other long handles in your kit. Three large drawers made in varying depths enable you to segregate the various types of tools while a space below the bottom drawer takes large end wrenches, etc., used only occasionally. Top drawer divided into four sections for chisels, punches, Midget tools, etc. Open tray in top of chest is convenient for holding those tools in continual use. Two large side handles for carrying. Three hinges on lid, piano hinge on front cover. Heavy gauge sheet steel—spot welded construction. One padlock securely locks the entire chest. (Shipping weight 30 lbs.)

Measurements: Chest, $20\frac{1}{4}" \times 8\frac{1}{4}" \times 10\frac{3}{4}"$
 Top Tray $20\frac{1}{8}" \times 8" \times 2\frac{1}{2}"$
 Top Drawer $19\frac{1}{2}" \times 7\frac{1}{4}" \times 1\frac{1}{2}"$
 Middle Drawer $19\frac{1}{2}" \times 7\frac{1}{4}" \times 2"$
 Bottom Drawer $19\frac{1}{2}" \times 7\frac{1}{4}" \times 3"$

Price varies according to branch zone.
 (Zone 1, \$8.45) (Zone 2, \$8.55) (Zone 3, \$8.65)
 (Zone 4, \$9.05) (Zone 5, \$9.60).



K-23 Snap-On MechaniChest

A Big Brother to the K-22

ESSENTIALLY the same design as K-22 but built larger and more substantial. We do not believe it possible to build a better quality tool chest for the price it carries. It is offered for the thousands of mechanics who require a maximum amount of space for their kits and who demand the utmost in utility, quality, and economy. Three big strong drawers and an open top tray provide for separation of various kinds of tools. Lid and front panel are both fitted with piano type hinge. One strong hasp for padlock secures the entire contents. Has two strong trunk handles for carrying. Grey enamel finish.



(Shipping weight 39 lbs.)

Measurements: Chest, $24" \times 9" \times 11\frac{1}{2}"$
 Top Tray $24" \times 8" \times 3"$
 Top Drawer $22\frac{1}{2}" \times 7\frac{3}{8}" \times 1\frac{1}{2}"$
 Middle Drawer $22\frac{1}{2}" \times 7\frac{3}{8}" \times 2"$
 Bottom Drawer $22\frac{1}{2}" \times 7\frac{3}{8}" \times 3\frac{1}{2}"$

Price varies according to branch zone.

(Zone 1, \$12.15) (Zone 2, \$12.30) (Zone 3, \$12.45) (Zone 4, \$12.85) (Zone 5, \$13.55).

See the KT-2 Tote-Tray for these Chests—Page 85



See Inside Back Cover for Branch Zones

K-5 Snap-On Tool Chest

ROOMY—sturdy—handy. Holds complete tool equipment of the average mechanic. Top section has three compartments, the larger being made so as to accommodate the KT-1 Tool Tray if desired. (See page 84.)

Bottom section has six drawers, of different widths and depths, to hold various kinds and sizes of tools. All drawers strongly supported and easy sliding.

Top lid has piano hinges, with corners protected by steel guides for accurate fit. Front or drop door slides under bottom drawers out of way during work.

Made of heavy, 20-gauge steel, all corners and edges reinforced, spot-welded throughout—the strongest and most durable construction possible. Equipped with heavy handles at the ends, suitcase style catches and strong hasp for padlock. Finished in black enamel.



(Shipping Weight, 70 lbs.)

26" x 12" x 14"

Price varies according to branch zone. (Zone 1, \$19.75) (Zone 2, \$20.25) (Zone 3, \$20.50) (Zone 4, \$21.30) (Zone 5, \$22.50).

Note: No. KT-1 Tool Tray furnished additional, if desired. Each... \$ 1.45

RK-5 Roller Bench for K-5 Chest

CONVERTS your K-5 Tool Chest into a roll-away work bench and saves you frequent trips back and forth... takes your tools right to the job. Top of this bench is the exact size of the K-5 Chest which is held in place by the top extensions on the legs. The bench is built of heavy gauge sheet steel and angle iron and fitted with swivel casters... it rolls easily even when heavily loaded. 22½" high, 26" long, 12" wide. (Shipping Weight, 26 lbs.)

Price varies according to Branch Zone. (Zone 1, \$6.05) (Zone 2, \$6.15) (Zone 3, \$6.25) (Zone 4, \$6.50) (Zone 5, \$6.95)



Panels for RK-5 Bench

ADD these panels to your RK-5 Roller Bench and turn it into a lock-up cabinet for your larger pieces of tool equipment. Made of heavy sheet steel with reinforced door and tumbler type lock. (Shipping Weight, 15 lbs.)



PR-5 Combination of RK-5 Bench and RKP-5 Set of Panels.

	RKP-5 Panel Set	PR-5 Combination Bench and Panels
Zone 1...	\$4.55	\$10.60
Zone 2...	4.65	10.80
Zone 3...	4.65	10.90
Zone 4...	4.85	11.35
Zone 5...	5.15	12.10

RT-18 Under-Car Tray

FILLS a real need in every garage. Especially useful when you're under a car for holding tools, parts, etc. that would otherwise be spread around on the floor. 18" square, with sides 1½" high... silent "Baco" casters. Overall height 3¼". (Shipping Weight, 18½ lbs.)

Each... \$3.25



See Inside Back Cover for Branch Zones

K-500 Combination Tool Cabinet

HERE is the ideal set-up . . . the K-500 Combination Cabinet comprised of the K-5 Tool Chest, RK-5 Roller Bench and RKP-5 Set of Panels listed on page 87. Everything you need in this kind of equipment. The finest chest ever built—the convenience of the rollaway feature and the lock-up cabinet for larger tools. You'll be the envy of all your fellow mechanics when you get your tools lined up in this outfit . . . it's a combination you'll be proud to own and use. It's not a flimsy tin construction camouflaged with a fancy paint job, but is solidly constructed of heavy gauge steel and angle iron and built to give you years of dependable service. Buy the complete K-500 Combination or get it a unit at a time. (Shipping weight—111 lbs.)

Price varies according to branch zone. (Zone 1—\$30.35) (Zone 2—\$31.05) (Zone 3—\$31.40) (Zone 4—\$32.65) (Zone 5—\$34.60).



K-30 Snap-on Roller Bench

A ROLLER bench that every mechanic can afford . . . no need now to envy the other fellow the convenience of his bench—Snap-on presents this sturdy, full-size piece of equipment at an unbelievably low price within the reach of every mechanic. Large sliding drawer that can be padlocked, two convenient shelves for your equipment or to hold parts, and a convenient work top. Fitted with silent "Baco" casters. Bench—35½" high, 18" wide 24" deep; drawer—5½" high, 13¾" wide, 24" front to back. (Shipping weight—56 lbs.)

Price varies according to branch zone. (Zone 1—\$13.25) (Zone 2—\$13.50) (Zone 3—\$13.70) (Zone 4—\$14.50) (Zone 5—\$15.65).

Bottom Panels for K-30

Converts the bottom shelf into a lock-up compartment for larger tools. Heavy sheet steel with reinforced door . . . tumbler type lock. (Shipping weight—14¼ lbs.) No. KP-70 Set of Panels. \$3.95



See Inside Back Cover for Branch Zones

Snap-On Roller Tool Bench No. K-70

HOLDS mechanic's complete hand tool equipment—rolls right to the job on big, easy running, "Baco" casters, serves your tools to you, speeds up your work, saves many trips to the work bench. When working on an engine, the flat top acts as a work bench. When you're underneath a car, lower tray holds the tools

you need in easy reach. At night lock 'em all up in the roomy drawers. One big hasp locks all drawers.

When grinding valves use the handy, removable valve shelf which hangs on either side of bench. Prevents mixing up valves and insures getting them all back into original positions.

Heavy sheet steel and angle-iron construction. Drawers spot-welded. Shelves assembled to legs with bolts and nuts with lock washers. Grey enamel finish.

Overall dimensions—36½" high, 18½" wide, and 24½" from front to back.



Drawers—Each with three compartments. Top drawer—14¼" wide, 20" long, 2½" deep. Middle drawer—14¼" wide, 22" long, 4½" deep. Bottom drawer—15½" wide, 24¼" long, 7" deep.

No. K-70 Snap-on Roller Tool Bench. A sturdy, compact, efficient working unit and tool container. (Shipping weight 115 lbs.)

Price varies according to branch zone. (Zone 1, \$23.50) (Zone 2, \$23.85) (Zone 3, \$24.15) (Zone 4, \$25.25) (Zone 5, \$26.90).

Panels for Enclosing Bottom of K-70 Bench

Converts the open bottom shelf of your K-70 Roller Bench into a lock-up tool cabinet for those larger pieces of your equipment. Photo at right shows how your bench will appear after the panels have been added. Adds a great deal to the value and utility of your Snap-on Roller Bench. Strong tumbler type lock. (Shipping weight 14¼ lbs.)

No. KP-70—Set of panels (painted grey) for K-70 Bench. \$3.95

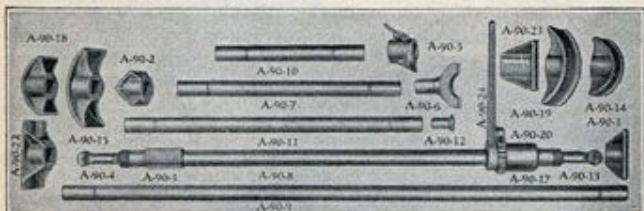
No. KP-7—Set of panels (painted black) for K-7 Bench. \$3.95



See Inside Back Cover for Branch Zones

Snap-On "Body-King"

THE greatest development in body tools in years . . . it puts into the hands of even the small shop a complete outfit for straightening bodies, door posts, fenders, and all the other jobs where jacks are ordinarily required for body repair work. According to owners of shops where the tool has been under test, it is by far the most efficient tool that has yet been developed for this kind of work.



Every job brings new problems and this tool will surprise you with its adaptability to the many different jobs you have to handle. Put it to work for you, and watch the profits grow.



Showing how the tool is used to straighten up the door posts.



Using the jack to straighten the roof over the windshield.

A-90 Body Jack. Complete with all parts listed below. \$36.90

Parts Price List

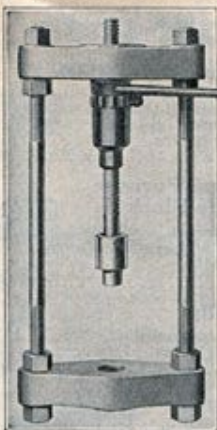
A-90-1	—Straight Base, 2 included with set.	Each \$1.00
A-90-2	—90° Angle Base, 2 included with set.	Each .90
A-90-3	—Adjusting Nut	1.65
A-90-4	—9" Screw	1.90
A-90-5	—Side Clamp	1.30
A-90-6	—Arch Base	.95
A-90-7	—18" Tube	1.35
A-90-8	—30" Tube	2.05
A-90-9	—48" Tube	3.10
A-90-10	—12" Tube	.95
A-90-11	—24" Tube	1.75
A-90-12	—Push Pad	.65
A-90-13	—14 1/4" Screw	2.25
A-90-14	—2 1/2" Radius Flanged Base	1.35
A-90-15	—4" Radius Flanged Base	1.55
A-90-17	—Ratchet Housing	2.60
A-90-18	—2 1/2" Radius Base	1.05
A-90-19	—4" Radius Base	1.30
A-90-20	—Lock Nut, 2 included with tool.	Each .40
A-90-22	—Chain Bracket	2.25
A-90-23	—Straight Push Pad	1.95
A-90-24	—Ratchet Handle	2.35



Left to right: 1. Using the tool as a bumper jack on one of the new models. 2. Straightening the door frame. 3. Holding torn fender in proper position.

Build Bigger Profits With the "Body-King"

Body Jack Press



HANDLES 101 tough jobs around any garage . . . such as removing and replacing gears, bushings, bearings, etc., straightening jobs, etc. Can be fixed to bench by inserting the threaded bars through the bench and attaching the nuts underneath. Maximum depth of working space 8".

A-90-26X—Complete Press as shown in the illustration . . . \$25.10

A-90-26—Frame . . . \$16.00

A-90-26-4—Adaptor Anvil . . . 1.90

A-90-17—Ratchet Housing . . . 2.60

A-90-24—Ratchet Handle . . . 2.35

A-90-13—14 3/4" Screw . . . 2.25

Clamp and Spreading Tool

A POWERFUL tool for pulling bodies, fenders, frame sections, etc., into position, or to spread apart fender wells, frame horns, bumpers, etc. Tubes can be coupled together to increase length of tool. Present owners of a Snap-on Body-King can adapt their tubes to this tool by drilling a series of holes to accommodate the assembly pins. Spreading jaws only require 1 1/4" for application.

A-90-27X—Complete with all parts listed below . . . \$27.30



A-90-27-1—Clamp Jaw . . . \$2.35

A-90-27-2—Comb. Clamp and Spreading Jaw . . . 3.60

A-90-27-10—Spreading Jaw Assembly . . . 3.35

A-90-27-9—2 1/2" Assembly Pin (2 needed)30

A-90-27-8—2 3/4" Assembly Pin (2 needed)30

A-90-17—Ratchet Housing . . . \$2.60

A-90-27-7—Coupler . . . 1.20

A-90-24—Ratchet Handle . . . 2.35

A-90-7—18" Tube . . . 1.35

A-90-8—30" Tube . . . 2.05

A-90-9—48" Tube . . . 3.10

A-90-4—9" Screw . . . 1.90

A-90-13—14 3/4" Screw . . . 2.25

Low Lift Jack

Extremely useful on many jobs where working space is very limited. Minimum height 5 3/4", maximum height 7 3/4".

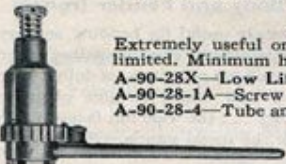
A-90-28X—Low Lift Jack as Illustrated . . . \$7.60

A-90-28-1A—Screw Assembly . . . 1.50

A-90-28-4—Tube and Plate Assembly . . . 1.15

A-90-17—Ratchet Housing . . . 2.60

A-90-24—Ratchet Handle . . . 2.35



Inverted "V" Base

A valuable accessory when the push is at an angle to the body post, etc. . . . Gives a secure hold and the proper directional squeeze.

A-90-32—90° "V" Base. Each . . . \$1.35



Hard Rubber Base

A 3 1/2" rubber base for protecting door and window moldings or for use where standard bases do not provide a good hold. The rubber will conform to the shape of the frame and give a good non-slip grip.

A-90-30—3 1/2" Rubber Base. Each . . . \$1.25



Extra Sizes of Tubes

These two extra tubes will greatly increase the utility of your Body-King, and for your working convenience we recommend you add them to your outfit.



A-90-31—6" Tube. Each . . . \$0.65

A-90-25—36" Tube. Each . . . 2.50

Selected Shop Equipment Pays Big Dividends

B. P. Body and Fender Tools

Regular or Toe Dolly Block



No. 613—Full surface ground and polished. Weight $2\frac{1}{2}$ lbs., $4\frac{3}{4}$ " long, $2\frac{1}{4}$ " wide, $1\frac{1}{8}$ " thick.

Each.....\$1.50

Small Hand Hold Dolly



No. 618—Working surfaces ground and polished. Weight $2\frac{1}{4}$ lbs.

Each.....\$1.00



Heel Dolly Block



No. 614—Full surface ground and polished. Weight $2\frac{1}{4}$ lbs., $2\frac{1}{2}$ " long, $3\frac{1}{8}$ " wide, $1\frac{1}{2}$ " thick. Ea. \$1.50

General Purpose Dolly Block



No. 616—Full surface ground and polished. Weight 3 lbs.

Each.....\$3.00

Bar Dolly

No. 585—Full surface ground and polished. Weight $3\frac{1}{4}$ lbs., $4\frac{5}{8}$ " long, $2\frac{1}{2}$ " wide, $1\frac{1}{8}$ " high. Fits contours of latest models. Each.....\$1.50

Deep Curve Dolly

BF-704—Especially useful on late model cars having deep curves and pockets . . . pillow shaped with flat bottom and side . . . full surface ground and polished. Weight—2 lbs. 10 oz., $3\frac{3}{4}$ " long, 2" wide, $1\frac{1}{4}$ " high. Each.....\$2.50



Hand Hold Dolly

BF-706—A specially shaped dolly block to give a firm hand grip. Curved for work on late model cars, especially adaptable to General Motors line. Weight—4 lbs., $4\frac{1}{8}$ " long, $2\frac{5}{8}$ " wide, $3\frac{1}{8}$ " high. Each...\$2.85

Special Fender Dolly

BF-705—For work on fenders with rolled edges and beads. It has a small curved end which works perfectly under the rolled edge. Full surface ground and polished. Weight—2 lbs. 15 oz., 4" long, $2\frac{3}{4}$ " wide, $1\frac{1}{4}$ " high. Each.....\$2.75



Body and Fender Irons

Extremely useful for bending and prying operations, also as dollies where space will not permit use of dolly blocks. Heavy and ridged to give plenty of leverage . . . the wide flat faces will not break the metal panels. Rust-proofed but not plated.

BF-300—Set of three Body Irons.....\$7.05

Stock No.	Length of Hook	Overall Length	Blade Width	Price
BF-768	$3\frac{1}{4}$ "	14"	$1\frac{1}{4}$ "	\$2.25
BF-769	$4\frac{1}{4}$ "	15"	$1\frac{1}{2}$ "	2.35
BF-770	$6\frac{1}{4}$ "	14"	$1\frac{1}{2}$ "	2.45

Adjustable Flexible File Holder

WH-14—Adjusts file either concave, flat or convex as required for different surfaces. A safety feature limits the adjustment so that the file cannot be sprung enough to break it. Each....\$1.95



14-V—14" Flexible Curved Tooth File for above. Each.....2.15
14-S—14" Swedish flexible curved tooth file. Each.....2.15

Be Equipped to Handle All Body Work

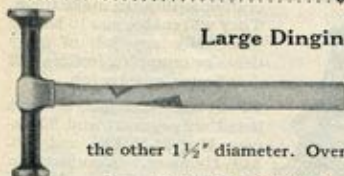
Body Repair Tools—Cont'd

Pricking and Dinging Hammer

No. 509—For smoothing out small dents and general dinging work. Weight $\frac{1}{2}$ lb., overall length 12", flat face $1\frac{1}{2}$ " diameter. Each.....\$1.75



Large Dinging Hammer



No. 600—The largest of our dinging hammers. Weight 13 oz., 6" double faced head with one face $1\frac{1}{4}$ " diameter, striking surface, the other $1\frac{1}{2}$ " diameter. Overall length $11\frac{1}{2}$ ". Each.....\$1.95

Light Weight Bumping Hammer

No. 598—For work on late model cars having fenders of lighter weight steel. Weight—9 oz., 4" head with $1\frac{1}{4}$ " round face and $1\frac{1}{2}$ " square face. Overall length $11\frac{1}{2}$ ". Correctly designed and balanced. Each.....\$1.25



Faces Polished



Fender Bumper

Faces Polished

Weight $1\frac{1}{2}$ lbs. Overall length 14". Head 8" long. Faces $1\frac{1}{2}$ " diameter.

No. 596—Fender Bumper. Each.....\$2.50

Used underneath the fender to rough out bumps, no need to remove the wheels.

Bumping Hammer

No. 604-H—14 oz. weight. Overall length 12". Head $4\frac{1}{4}$ " long. Round face $1\frac{1}{4}$ " diameter. Square face $1\frac{1}{4}$ " square. Each.....\$1.25



Faces Polished

Dinging Hammer

A light weight finishing hammer



Faces Polished

No. 599—Weight 10 oz. Overall length $11\frac{1}{2}$ ". Head is $6\frac{1}{2}$ " long. Large face is $1\frac{1}{4}$ " diameter and small face $1\frac{1}{8}$ " diameter. Each.....\$1.95

Fender Bumping Mallet

No. FM-18—Rubber composition head, will not shatter, chip or split. Excels hickory for durability. Head $2\frac{1}{8}$ " by $3\frac{1}{4}$ ". Handle $11\frac{1}{2}$ " long. Each.....\$1.30



FM-18

Long Nosed Pricking and Dinging Hammer

No. 519—For smoothing out small dents and dinging work where a long light hammer is required. Weight—1 lb. 1 oz., handle length 12", $1\frac{1}{2}$ " round face on $3\frac{1}{2}$ " shaft, pricking end $6\frac{1}{2}$ " long. Each.....\$2.25



Combination Spoon and Bending Iron



No. 6265—For straightening fender flanges, pushing out panel dents, etc. Made from spring steel. Weight 2 lbs. Overall length 16". $1\frac{1}{2}$ " stock Each.....\$1.50

There's Big Profits in Body and Fender Repairing

BF-21 Body and Fender Set



CORRECTLY designed tools of the best material are essential for the production of good body and fender repair work. Blue-Point tools are as perfect as modern steel and careful craftsmanship can make them. They will enable you to handle practically any job of body dents or crumpled fenders and do a better, quicker job.

BF-21 Set—Contains all tools listed on pages 92 and 93 except No. 14-V File and No. 519 Hammer. Complete in K-24 MechaniKit . . . \$45.35

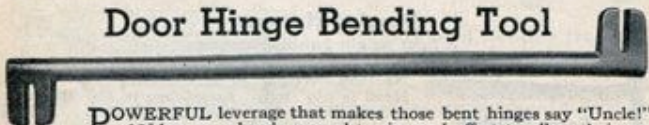
Body Panel Cutter



part of a panel away and welding new steel in its place. This tool cuts through body steel like a knife, leaving a straight, even edge where the cut was made. Adjustable length blade can be removed for sharpening. A valuable addition to your tool kit. 10 $\frac{3}{4}$ " long.

BF-708 Panel Cutter. Each. \$1.85

Door Hinge Bending Tool



POWERFUL leverage that makes those bent hinges say "Uncle!" 18" long . . . heads ground to size and offset to allow their use on old as well as new models. Drop forged and hardened to provide maximum strength. A different sized slot on each end.

HB-18—Hinge Bending Tool. Each. \$1.75

Head Lamp Suction Cup



DISTRIBUTES the pressure evenly all over the lens when removing it from headlamps on late model Chrysler, Nash, Studebaker and other cars using the so-called rimless lamp. Prevents danger of breaking the glass and cutting your hands when one of these lenses has stuck to the washer. Also very useful for pulling bent door panels, etc., back into position by taking advantage of its powerful suction grip . . . will often save removing door trim or welding rods to such panels. This tool is not guaranteed.

HL-6—Head Lamp Suction Cup. Each. \$0.90



Be Equipped to Handle All Body Work

Good Tools Increase Your Shop Efficiency

Door Hinge Pin Tools

Single Screw Type



A-31-H
15c



A-31-J
15c



A-31-K
15c



A-31-E
25c



A-31-F
25c

A-31-L
50c



A TIME and labor saving device for removing those door hinge pins that have become stuck or rusted in the hinge. This tool eliminates the danger of damaging the adjacent body surface always present when using a hammer and punch for the job.

Three sizes of Pilots are provided to take different sized pins for breaking loose extra tight pins. Two adaptors are also included for obtaining reverse action where there is not room enough to use the tool in the regular manner. A hole is drilled through the housing to enable the operator to see that the tool is lined up properly with the pin. In some cases the door should be raised slightly in order to obtain proper alignment.

A-31-A—Door Hinge Pin Tool. Each \$2.65

A-31-M—Housing only 1.40

Prices of individual parts shown with tool.

Fit-All Tow Clamp

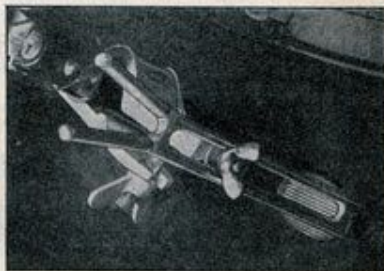


If you ever had a towing job to do you will appreciate the value of such a tool as this. It attaches to the steering wheel of any make or model car and locks it in any position, takes only a few seconds to attach and protects the steering hook-up from injury. No need to lock the wheel by roping it to door handles, etc., no excuse for side-swiping anything because of the front wheels being free to whip. A leather lining protects the steering column from damage and the steering wheel forks are rubber covered.

It Makes An Excellent Brake Pedal Jack

It can be set at any position on the steering column and has an adjustable sliding action which adapts it to almost any car on the market. It cannot slip, cannot scratch the car finish, and, unlike other brake pedal jacks, does not connect with or damage the front seat. Putting it mildly, it's a mighty fine double purpose tool and will be of great value in every shop.

TC-100—Fit-All Tow Clamp \$3.50



Buy Blue-Point and You Buy Quality

Blue-Point Wire Brushes

THE quality of material and workmanship built into this new line is the highest that modern methods can produce and the extremely long wearing characteristics of these units a triumph of manufacturing achievement. Blue-Point Wire Brushes will outlast any other similar tool on the market.

Made of high quality, selected wire and metal bound to prevent dangerous chips from flying loose—crimped wire bristles prevent bending or breaking.



Heavy Duty Wheel Brushes

The best quality, long life brushes, built for continuous heavy service in everyday work.

A-25—4" Diameter Brush. Each.....	\$ 1.90
A-26—6" Diameter Brush. Each.....	2.95
A-28—8" Diameter Brush. Each.....	3.15
A-29—10" Diameter Brush. Each.....	5.40
A-30—12" Diameter Brush. Each.....	7.20

Standard Wheel Brushes

A good quality brush comparing most favorably with other makes of similar standards but not quite as strong and durable as the heavy duty brushes listed above.

A-32—4" Diameter Brush. Each.....	\$1.35
A-33—6" Diameter Brush. Each.....	1.95
A-34—8" Diameter Brush. Each.....	2.15
A-35—10" Diameter Brush. Each.....	2.70
A-36—12" Diameter Brush. Each.....	3.60

Light Cleaning and Polishing Wheel Brushes

For cleaning carburetor, ignition, and other small parts. Made $\frac{1}{8}$ " wide from very fine wire. When ordering please specify size of arbor hole needed.

A-201—4" diameter, .005 wire. Each.....	\$0.75
A-202—6" diameter, .005 wire. Each.....	1.10

Arbor Adaptor for Electric Drills

A-24—Special Arbor—Adapts Wheel Brush with $\frac{1}{8}$ " arbor hole to $\frac{1}{4}$ " Electric Drill Chucks. Length overall $2\frac{1}{2}$ ". Each... \$0.75



Heavy Duty Carbon Cleaning Brush

A-3—Fits $\frac{1}{4}$ " Electric Drill. Made of crimped, bright music wire—for cleaning carbon from cylinder heads, cylinder blocks and ports. Fast and easy to use. Each..... \$1.60



Standard Carbon Cleaning Brushes

Similar in design to the A-3 for use on flexible shaft for cleaning carbon around cylinder heads, etc.

A-1—With Straight Wire. Each.....	\$0.70
A-2—With Crimped Wire. Each.....	1.05

General Use Hand Brush and Scraper



A-65 — Refillable all metal crimped wire hand brush, with scraper attachment. These tools will outlast several of the old style wood handle brushes. Each \$1.45

A-61—Crimped Wire Refill for A-65. Each.....	\$0.40
A-62—Straight Wire Refill for A-65. Each.....	.40
A-63—Scraper Blade only. Each.....	.25

Wood Handle Wire Brush



A good quality wood handle type of brush with bristles metal bound to prevent them coming loose and to give better service and durability. Built of sturdy material throughout and offering an inexpensive tool that compares favorably with other makes of its kind.

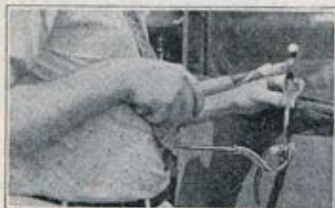
AC-58 Wire Brush. Each.....	\$0.35
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Blue-Point Quality Will Save You Money—Try It

Door and Window Handle Tools



No. 117
Escutcheon
Plate Tool



USED to depress the escutcheon plate on door and window regulator handles, permitting easy access to the pin or spring holding the handle in place. The forked end is applied around the handle onto the plate and pressure applied with the body, leaving both hands free to remove the pin or spring lock.

No. 117 Plate Tool. Each . . . \$0.75

No. 119 Door Handle Spring Remover

Used with the No. 117 Plate Tool for removing the spring lock on door and window regulator handles on Fisher bodies.

No. 119 Spring Remover. Each . . . \$0.25

Abrasive Grinding Wheels



MADE from natural aluminous oxide abrasive . . . fully vitrified—they cut better, last longer and are of a better quality than most wheels in this price range. Grit refers to size of abrasive grain . . . these wheels are furnished in Nos. 80 and 60 fine and Nos. 46 and 36 coarse—they are all grade "M" wheels, a grade combining hardness and toughness. These combinations of "Grit" and "Grade" have been found the best for general purpose work.

Stock No.	Diameter	Width	Grit	Arbor Hole	Price
6536	6"	3/4"	36	1/2"	\$1.20
6536-5	6"	3/4"	36	1/2"	1.20
6560	6"	3/4"	60	1/2"	1.20
6560-5	6"	3/4"	60	1/2"	1.20
6370	6"	3/4"	80	1/2"	1.85
6370-5	6"	3/4"	80	1/2"	1.85
6346	6"	3/4"	46	1/2"	1.85
6346-5	6"	3/4"	46	1/2"	1.85
6136	6"	1"	36	1/2"	1.95
6136-5	6"	1"	36	1/2"	1.95
6160	6"	1"	60	1/2"	1.95
6160-5	6"	1"	60	1/2"	1.95
4560	4"	1"	60	1/2"	.85
4560-5	4"	1"	60	1/2"	.85
4760	4"	1"	60	1/2"	.95
4760-5	4"	1"	60	1/2"	.95

Grinding Wheel Dresser



FOR rapid action on medium size wheels . . . cleans up the grinding face and removes glaze. It's the most satisfactory type of tool for the job. Not intended for precision dressing. The hood protects your face from flying emery dust. This tool is not guaranteed.

WD-11—Wheel Dresser, with extra set of cutters . . . \$0.85

WD-11A—Extra Cutters, per set.10

Let the Snap-on Representative Check Your Tool Crib

1/3 H.P. Bench Grinder

A POWERFUL, smooth-running bench grinder which will give years of dependable, satisfactory service and economical operation. Top notch quality at a price the average shop can afford.

Motor is 1/3 H.P., 3400 R.P.M., 110 V., 60 cycle A.C., ball bearing, totally enclosed and protected by felt washers from dust and grit.

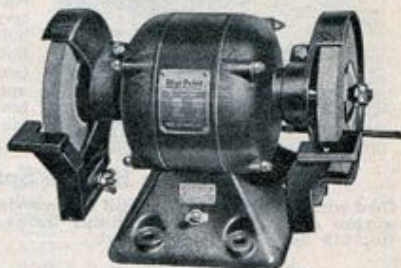
*Continuous
Operation*

SKF Bearings

Fully Enclosed

High Grade Wheels

Adjustable Tool Rests



Note the space between the grinding wheel and side of motor which allows full use of the inner side of the wheel.

Oversize SKF ball bearing (fully enclosed for continuous service) permit the use of a longer shaft than is usually found on machines of this price . . . this means more working room between wheels and motor housing.

A heavy duty, 10 ampere "Off and On" switch is built into the base. 10 feet of No. 16 all rubber covered cord with rubber plug are provided.

Fully adjustable tool rests and metal guards. Black crackle finish.

Wheels—6" x 3/4", suitable for usual roughing and finishing work supplied with machine.

No. 633—1/3 H.P. Bench Grinder with 2 wheels.

F.O.B. Factory, N. J. \$24.00

No. 6370—Extra 6" x 3/4" Fine Wheel. 1.85

No. 6346—Extra 6" x 3/4" Coarse Wheel. 1.85

Note: Furnished on special order in voltages up to 250 and in 50 cycles. Also in D.C. Write for quotation.

Bench Grinder and Wire Wheel

MANY shops find that one grinding wheel is sufficient and wish to make use of a wire wheel instead of a second abrasive wheel. To accommodate such shops we furnish the above motor with grinding and wire wheel combination.

No. 633-W—1/3 H.P. Bench Grinder and Wire Wheel Combination. \$24.00

No. A-33—Extra 6" Wire Wheel. 1.95



Equal In Value To the Most Expensive Machines

Metal Case for Valve Refacer



IDEAL for carrying and protecting the A-110 Valve Refacing machine shown on pages 100 and 101. The bottom is used as a permanent base for the machine and has rubber bumpers to absorb vibration. The top is placed down over the machine and held together with four strong snap fasteners. Clip in the top holds the diamond dresser. "Hip-roof" adds strength and appearance to the case. Full

size leather suitcase style handle gives a comfortable and convenient means for lifting and carrying the outfit.

AB-110—Metal Case for Valve Refacer \$2.85

A-110-B—Standard A-110 machine complete in AB-100 case 52.60

A-111-B—Special A-111 machine complete in AB-100 case 54.70

A-112-B—Special A-112 machine complete in AB-100 case 54.70

A-113-B—Special A-113 machine complete in AB-100 case 54.70

Note: The above valve refacers are shown on pages 100 and 101.



7" Heavy Duty Bench Grinder

$\frac{1}{2}$ H.P. Capacitor Start—Capacitor Run



110 V. 60 cy. 1 Ph. A.C. 3450 R.P.M.

Fully enclosed. SKF Ball bearings.

High Power Factor—Continuous Operation.

Wheels 7" dia. x 1" thick, $\frac{5}{8}$ " arbor hole.

Shaft 1" dia. thru core— $\frac{3}{4}$ " thru bearings— $\frac{5}{8}$ " thru wheel arbor.

2-Way adjustable tool rests. Ten ampere "On and Off" switch—10 ft. No. 16SJ approved all rubber cord and plug.

THIS grinder is one you can depend upon to deliver many, many years of service. Motor is the full capacitor start and capacitor run type . . . no starting windings or centrifugal starting switch is required. The large, highly insulated oil filled condenser of the finest type is in the circuit at all times. The motor is very cool running and has a high power factor . . . oversize SKF Ball Bearings fully protected from dust and grit and preloaded with grease.

No. 750— $\frac{1}{2}$ H.P. Bench Grinder, with 2 wheels.

F.O.B. Factory, N. J. **\$39.50**

Note: Furnished on special order in voltages up to 220 V. and 50 cy. Write for quotation.

Accurately Designed and Precision Built Throughout

Blue-Point Valve Refacer

Fast—Accurate—Inexpensive

BUILT with quality parts and accurate workmanship throughout, this new machine is placed within the reach of every garage . . . Small shops can no longer afford to send out their valve regrinding work . . . Larger shops can now own that extra machine they have needed so long. The Blue-Point Valve Refacer is built as small and compact as possible . . . its simplicity makes it easy to handle . . . less working parts, less vibration, less trouble, and a mirror finish on each and every valve head you grind.

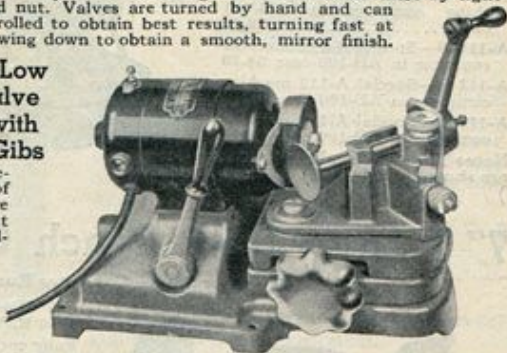
V-Block Chuck and Accurate Angle Set

When a lathe machinist lines up a rod for accuracy he uses a V-block, it's the most accurate method for holding a round rod to true center. We utilize this principle for holding the valve stem securely in line. Small, specially hardened inserts are imbedded in the V-block and ground to extreme accuracy and the valve stem is clamped in these V-blocks.

A knurled nut located on top of the V-block loosens the angle set adjustment and permits you to turn the block to the correct angle, when an automatic locking device drops in the exact angle set and is locked there by tightening the knurled nut. Valves are turned by hand and can therefore be controlled to obtain best results, turning fast at first and then slowing down to obtain a smooth, mirror finish.

The Only Low Priced Valve Refacer with Tapered Gibs

The Gibs and Slide-ways are out of sight, but they are very important points in the quality construction of the A-100 Valve Refacer. This machine is produced with special tapered



gibs, ground to extreme accuracy. One adjusting set screw takes up any wear that may occur. Most conventional machines have straight gibs which are impossible to get evenly adjusted their full length. Tapered gibs insure absolute carriage alignment free from all excess play.

Standard Machine

A-110—Valve Refacer, complete with 110-120 Volt A.C. and D.C. Universal Motor. \$49.75

Special Type Machines

A-111—Valve Refacer, with 32 Volt A.C. and D.C. Universal Motor. \$51.85

A-112—Valve Refacer, complete with 110-120 Volt A.C. and D.C. Universal Motor. Fitted with Canadian type switch. \$51.85

A-113—Valve Refacer, complete with 220-240 Volt A.C. and D.C. Motor. Especially adapted for European type valves. \$51.85

A-114—Valve Refacer, complete with 222-240 Volt Universal Motor, for standard American Valves. \$51.85

A-115—Valve Refacer, complete with 110-120 Volt A.C. and D.C. Universal Motor for European type valve. \$51.85

Prices quoted above are for cash. When bought on convenient terms add \$3.00 to above prices to cover expense of handling.

Accessories

A-100-29-1—Grinding Wheel, 2 1/2" x 3/4" x 3/16" hole 3860-J (Red). \$0.95

A-100-29-2—Grinding Wheel, 2 1/2" x 3/4" x 3/16" hole, Grit 60, Grade M. T. (Black). \$0.95

A-100-35—Valve Crank Assembly (takes valve stems 3/16" to 5/8" diameter). For earlier models A-100, A-101, A-102, A-103. 2.65

A-110-35—Valve Crank Assembly (takes valve stems 3/16" to 5/8" diameter). For models A-110 to A-115 listed above. 2.65

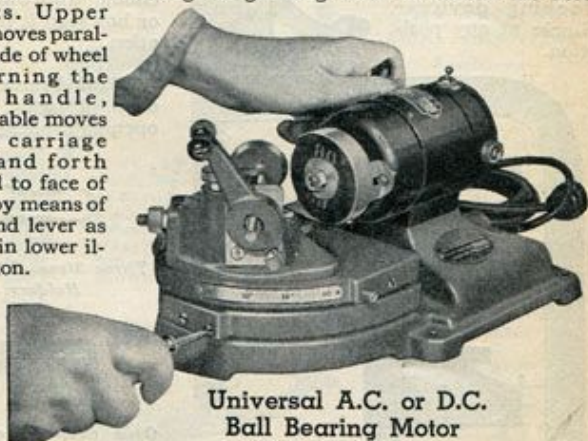
Crank Assembly furnished with machine takes up to 5/16" diameter.

No Shop Can Afford to be Without This Machine

Blue-Point Valve Refacer

Carriage Movement Adjustable for
Long or Short Valve Stems

THE whole carriage can be adjusted for handling different length valves by turning the adjustment screw as illustrated below. This moves the carriage $\frac{3}{4}$ " to or from the motor. This is important in grinding long or short valves, as the valve face must clear the inside edge of grinding wheel to obtain the best results. Upper table moves parallel to side of wheel by turning the knob handle, lower table moves whole carriage back and forth parallel to face of wheel by means of the hand lever as shown in lower illustration.

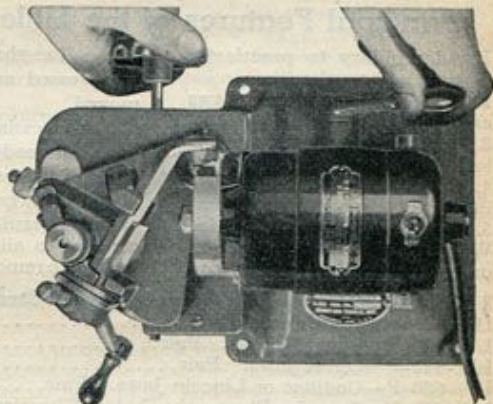


Universal A.C. or D.C.
Ball Bearing Motor

The motor used was selected after intensive tests had proven its superiority for the job. Universal . . . it works on either A.C. or D.C. current 110 to 120 volts and any cycle up to 60. Totally enclosed with ball bearings of the grease pre-loaded type. The heavy housing is designed to dissipate heat quickly and keep the motor running cool. Develops a maximum of $\frac{1}{4}$ H. P. under load. Max. R.P.M. 12,850. Load R.P.M. 7,500.

Grinding Stones and Diamond Dresser

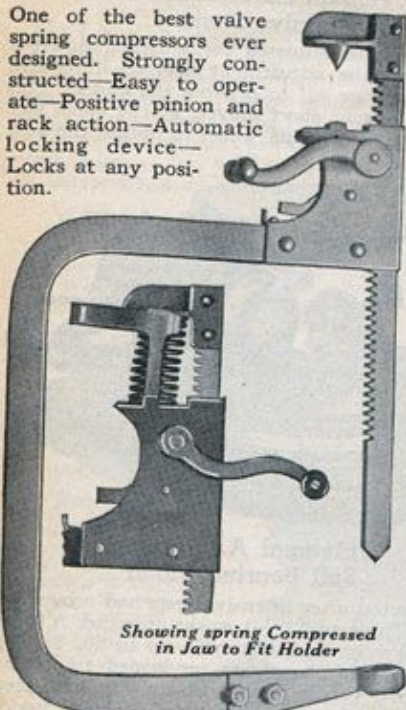
Stones furnished with machines are 38 grit, grade J, fully vitrified, $2\frac{1}{2}$ " diameter, $\frac{3}{8}$ " thick, and $\frac{5}{16}$ " arbor hole. Lengthy tests have proved this the most satisfactory for general use. Harder wheels have a tendency to pick up and hold metal which causes chatter. The diamond dresser furnished can be used to dress face and side of stone . . . Average life of diamond is about two years, and it can be replaced at low cost. This machine is built as sturdy and free from trouble as possible . . . read the instructions carefully before operating it.



Precision Shop Equipment Pays Big Dividends

Little Wonder Valve Tool

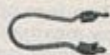
One of the best valve spring compressors ever designed. Strongly constructed—Easy to operate—Positive pinion and rack action—Automatic locking device—Locks at any position.



Showing spring Compressed in Jaw to Fit Holder

Satisfactory service and greatly improved design made this tool the popular unit it is today—Ask any mechanic who owns one or has seen it in operation.

LW-200 Frame 11½" deep, 9" wide, 10½" opening capacity.



Three Sizes of Spring Holders



One clip is shown clamped over spring after spring has been compressed and ready to be put back in motor.

Principal Features of the Little Wonder

1. Adaptability to practically all cars and trucks.
2. Positive vertical lift. Jaws cannot slip off spring.
3. Positive automatic lock—locks to any desired point.
4. Handle fitted with ratcheting device to clear obstructions.
5. Jaws exceptionally thin. When it is impossible to get under spring, jaws will fit into

any coil so that springs can be compressed and valve pin removed.

6. Compressing feature when you are ready to put spring back in motor.

7. Lifter large enough to clear exhaust manifold so that you can get to all springs without having to remove manifold, etc.

LW-200—Little Wonder, complete with Straight Jaws and three Spring Holders. Each.....	\$6.50
LW-630-P—Straight Jaws. Pair.....	1.00
LW-640-P—Offset Jaws. Pair.....	1.00
LW-660-P—Cadillac or Lincoln Jaws. Pair.....	1.25
LW-670-P—Jaws for Plymouth, Dodge, Chrysler and Waukesha Motors. Pair.....	1.25
LW-4—Set of 3 extra Spring Holders.....	1.25
LW-5—Blank Spring Holders. Each.....	.50

An Old Favorite With Many Mechanics

Blue-Point Valve Compressors

SERVICES late model cars without removing the manifold . . . with the manifold removed it is the handiest and fastest lifter on the market. The handle is set high on the "C" frame to avoid the high fenders on the latest car models.



CF-11
Valve Spring Compressor complete with CF-20P Set of Offset Jaws shown attached and CF-21P Set of Straight Jaws shown below. . . \$7.00

This Tool Has Many Important Features

HANDLE is placed out of way of hood and tie rods. Downward push with 8 to 1 leverage.

2. Note the loose ring attachment on bottom of frame—this ring can be slid to hold the tool locked in any required position.

3. Adjustment for valve stem length is easily secured. End of adjustable rod is fitted with a bellied footpiece with spring operating

self-adjusting centering point to obtain a firm grip upon all types of valve head surfaces.

4. The slim, strong adjustable jaws give most room to remove or replace the valve keys.

5. "C" frame, 11½" inside depth, 8¼" inside width, with 10½" opening capacity with offset jaws, 11½" capacity with straight jaws, allows enough clearance to operate without removing manifolds, especially on motors having down draft carburetor.

6. Lift starts off center which easily breaks loose tight washers.

7. Lift is from lower arm which gives direct lifting power.

Ford "V-8" Valve Lifters



WE offer this tool to those Ford mechanics who prefer the bar type Valve Lifter for V-8 models. The offset head and double slot enable its use on both upper and lower compressing jobs on all V-8 Valve Springs. Overall length of these tools is 24".

S-9088—Ford Valve Lifter. Each. \$1.95

SJ-9088—Valve Lifter for 60 H.P. V-8 Ford. Each. 1.95

Built to Properly Service the Latest Types of Motors

Large "U" Type Valve Lifter

UNIVERSAL in its scope—this valve spring compressor will take more different cars than any other compressor on the market. It is fast and easy to use, with the handle in the most convenient place for working and a downward lever action that compresses the tightest springs with ease . . . very light

in weight and simple in operation. New type, stronger, slim, channel-formed, adjustable jaws for all sizes of springs.

The handle is on the side out of the way of tie rods, hood, etc., and locks at any position by the use of the sliding ring on the lower part of the frame. "C" frame 11 $\frac{1}{4}$ " inside depth, 11 $\frac{3}{4}$ " inside width, opening capacity with offset jaws 10", with straight jaws 11".

Extra Jaws

CF-20P—Pair Offset Jaws	\$1.00
CF-20L—Left Offset Jaw . . . . .	.50
CF-20R—Right Offset Jaw . . . . .	.50
CF-21P—Pair Straight Jaws	1.00
CF-21L—Left Straight Jaw . . . . .	.50
CF-21R—Right Straight Jaw . . . . .	.50

CF-1 Valve Spring Compressor—complete with CF-20P Set of Offset Jaws and CF-21P Set of Straight Jaws. \$7.25



Works Well on Overhead Valves

Illustration at left shows the CF-1 lifter being used on an overhead valve job. Because of this flexibility of use on a large majority of cars, the CF-1 Blue-Point Valve Spring Compressor has become one of the most practical lifters available today.

Olds-Pontiac Valve Lifter

This lifter has been especially designed with a high handle in order to clear the fender on the Oldsmobile and Pontiac late model cars. In addition it will be found extremely handy for the other cars listed below.

CADILLAC—L Head and Overhead models.

CHEVROLET—All models.

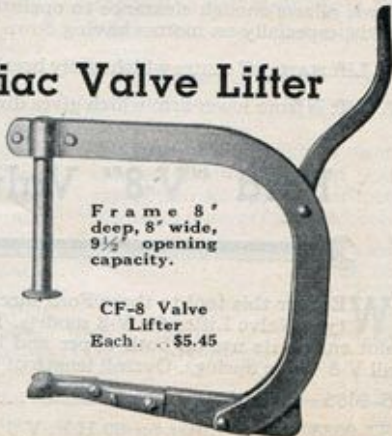
LA SALLE—1930, '31 V-8 models.

OLDSMOBILE—1934, '35 sixes and eights.

PONTIAC—1934, '35 sixes and eights.

Frame 8" deep, 8" wide, 9 $\frac{1}{2}$ " opening capacity.

CF-8 Valve Lifter
Each. . . \$5.45



Snap-On Brings a Regular Service to Your Shop

Valve Key Tools CF-7 Valve Key Replacer



The narrowest, most compact Key Replacer for all split type keys... ideal for Oldsmobile, Auburn, Studebaker, and all Chrysler, De Soto, Plymouth, Dodge and other hard-to-handle motors. Requires less working room than any other tool for the job. Sliding base absolutely prevents dropping of keys... Easy to load—easy to use. Each.....\$1.25

CF-2 Valve Key Replacer



Place the Keys in the jaws with sliding blade in forward position as illustrated—push to jaws against the valve stem sliding the blade back and leaving the Keys clamped around the stem. The tool holds them there until the spring collar is lowered. Each.....\$1.25

VK-10 Valve Key Replacer



Special for Oldsmobile, Chrysler, Plymouth, Dodge, DeSoto, and other cars using the small double grooved split keys. Short enough to get down by high fenders. This tool is thin enough to allow it to be pushed off by the spring washer and removed without catching on the tappet nut. Each.....\$0.95

CF-3 Valve Key Catcher

This universal tool slips in all around and locks tightly behind the Valve Spring Collar. The high gates receive the Valve Keys and deliver them to your hand. It works on practically all motors and saves the time of "ragging up the motor", and hunting lost keys in the crankcase, saves new gaskets, and extra labor of removing the pan. One job pays for the tool.



CF-3 Blue Point Valve Key Catcher. Each \$1.25

Valve Compressor Sets



CF-1,
CF-2 &
CF-3 valve tools

Designed to work with the CF-1, CF-11, CF-6 and CF-8 Valve Lifters, the CF-7 Key Replacer and CF-3 Key Catcher simplify removing and replacing the split lock keys... prevents keys from dropping into the crank case... makes it easy to do the job... saves ragging up the motor.

- CF-150 Set—Comprising CF-1, CF-7 and CF-3.....\$9.75
- CF-250 Set—Comprising CF-11, CF-7 and CF-3.....9.50
- CF-350 Set—Comprising CF-8, CF-7 and CF-3.....7.95
- CF-450 Set—Comprising CF-6, CF-7 and CF-3.....4.35

Correctly Designed to Fit Modern Cars

Blue-Point Hand Valve Lifter



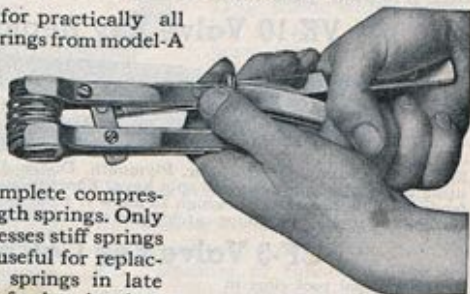
A HAND lifter designed for use on the late model cars with low manifolds. Adjustable channel formed jaws have 2" lift with five intermediate locking points. Handle is low and out of the way of low manifolds. Works satisfactorily on such cars as Dodge, Plymouth, DeSoto, Chrysler 6, 1933 to 1935, Olds 6 and 8, Pontiac 6 and 8, Hudson-Terraplane, etc.

CF-6 Hand Valve Lifter. Each.....\$1.85

Valve Spring Compressor

Jaws adjustable for practically all diameter valve springs from model-A

Ford to Dodge and Studebaker, also the handle link is made with two positioning holes for adjusting the tool for complete compression of different length springs. Only 9½" long, it compresses stiff springs easily and is most useful for replacing and removing springs in late model cars having fenders in close to the motor.



A sliding ring lock holds the tool compressed at any preferred position. Much safer and faster to use than a spring clip.

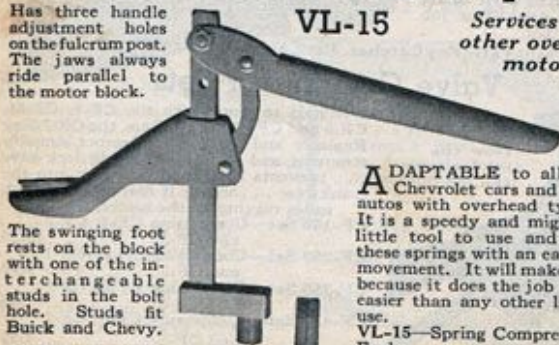
CF-18—Valve Spring Compressor. Each.....\$1.65

Special Buick & Chevy Tool

Has three handle adjustment holes on the fulcrum post. The jaws always ride parallel to the motor block.

VL-15

Serves many other overhead motors



The swinging foot rests on the block with one of the interchangeable studs in the bolt hole. Studs fit Buick and Chevy.

ADAPTABLE to all Buick and Chevrolet cars and many other autos with overhead type engines. It is a speedy and mighty efficient little tool to use and compresses these springs with an easy one-hand movement. It will make you money because it does the job quicker and easier than any other lifter now in use.

VL-15—Spring Compressor.....
Each.....\$2.00

We Offer all Types of Valve Tool Equipment

Valve Clearance Adjusting Tool

DOES rocker-arm tappet adjusting jobs on all valve in head motors in about one third the usual time, while the motor is hot and running. No other wrenches or tools are necessary.

Makes an absolutely accurate adjustment the first time with no checking back necessary. The handiest tool ever invented for this job—saves your time on every job.



Pat. No. 1,544,520

The correct size of adjusting socket is snapped onto the hexagon drive and

placed over the lock nut. The Screw Driver Blade is engaged in the screw slot and the adjustment made by the use of the hand grip. One quick movement of the wrench handle locks the nut tight.



V-160
1/2"

V-180
3/8"

V-200
5/8"

- V-21 Valve Clearance Set. Containing one each of the four units listed below. **\$3.20**
 V-21-H Valve Clearance Tool. Handle only. Each. **2.00**
 V-160 1/2" Valve Adj. Socket—Each. **.40**
 V-180 3/8" Valve Adj. Socket—Each. **.40**
 V-200 5/8" Valve Adj. Socket—Each. **.40**

Hard Valve Seat Inserter



A very necessary tool in every garage . . . replaces valve insert seats into the block quickly and easily and without marring the seat in any way. Correct size of pilot and driving collar are screwed onto the end of the driving shaft . . . the valve seat placed in position and the tool placed over it with the pilot in the valve guide hole. A few hammer blows on the shaft will reseat the valve insert.

A-65-B—Valve Seat Inserter Set. Contains the 8 parts A-65-1 to A-65-8 inclusive. **\$9.05**

- A-65-1—Driving Shaft. **\$1.30**
 A-65-2—1 1/4" Driving Collar **.95**
 A-65-3—1 1/4" Driving Collar **.95**
 A-65-4—1 1/4" Driving Collar **1.00**
 A-65-5—1 1/4" Driving Collar **1.00**
 A-65-6—1 1/4" Driv'g Collar **1.10**
 A-65-7—1 1/4" Driving Collar **1.05**
 A-65-8—2 1/4" Driving Collar **1.70**

Pilots for use with above Tool

- No. Pilots Each
 Z-200—5/8" **\$0.20**
 Z-201—5/8" plus .001 **.20**
 Z-210—21/64" **.20**
 Z-211—21/64" plus .001 **.20**

- No. Pilots Each
 Z-220—11/32" **\$0.20**
 Z-221—11/32" plus .001 **.20**
 Z-2202—11/32" minus .002 **.20**
 Z-2203—11/32" minus .003 **.20**
 Z-2204—11/32" minus .004 **.20**
 Z-240—3/4" **.20**
 Z-241—3/4" plus .001 **.20**
 Z-2402—3/4" minus .002 **.20**
 Z-2403—3/4" minus .003 **.20**
 Z-2404—3/4" minus .004 **.20**
 Z-250—25/64" **.20**
 Z-251—25/64" plus .001 **.20**
 Z-280—7/16" **.20**
 Z-380—19/32" **.25**

Snap-on Leads in Service to the Automotive Trade

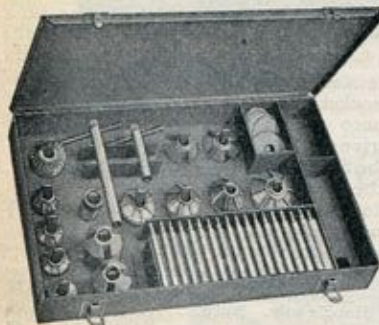
B. P. Valve Reseating Tools

Inexpensive Interchangeable Pilots

THESE improved valve seat reamers are an actual necessity in all shops. Interchangeable pilots are screwed into a master handle, thereby saving the cost of separate and expensive pilots. The cutting blades are made of high grade steel, run through special heat treating process to produce extreme hardness, capable of cutting very hard or glazed surfaces. They do an excellent job and cost half what the same size set of solid units would cost.



Phantom view shows how pilots and cutters attach to tapered handle shank.



Z-3400 Set

**ZV-8
Fore Pilot
Bushing**

Containing one each of the following tools, packed in metal case as illustrated.....**\$28.55**

Contents of Set

No.	Pilots	Each	No.	Cutters	Each
Z-200	$\frac{1}{8}$ "	\$0.20	Z-4815	$1\frac{1}{2}$ " 15°	\$1.75
Z-201	$\frac{1}{8}$ " plus .001	.20	Z-4830	$1\frac{1}{2}$ " 30°	1.75
Z-210	$\frac{1}{4}$ "	.20	Z-4845	$1\frac{1}{2}$ " 45°	1.75
Z-211	$\frac{1}{4}$ " plus .001	.20	Z-4860	$1\frac{1}{2}$ " 60°	1.75
Z-220	$\frac{11}{32}$ "	.20	Z-6415	2" 15°	2.25
Z-221	$\frac{11}{32}$ " plus .001	.20	Z-6430	2" 30°	1.75
Z-2202	$\frac{11}{32}$ " minus .002	.20	Z-6445	2" 45°	1.75
Z-2203	$\frac{11}{32}$ " minus .003	.20	Z-6460	2" 60°	1.75
Z-2204	$\frac{11}{32}$ " minus .004	.20	Z-8045	$2\frac{1}{2}$ " 45°	1.75
Z-240	$\frac{3}{8}$ "	.20	730	2" 45° Abrasive Grinder Head	\$1.50
Z-241	$\frac{3}{8}$ " plus .001	.20	740-C	Doz. Abrasive sheets, 3 fine, 9 coarse	1.25
Z-2402	$\frac{3}{8}$ " minus .002	.20	731	$2\frac{1}{2}$ " 30° Abrasive Grinder Head	1.50
Z-2403	$\frac{3}{8}$ " minus .003	.20	741-B	Doz. Abrasive Sheets (Coarse)	.50
Z-2404	$\frac{3}{8}$ " minus .004	.20	ZV-8	Ford Pilot Bushing	.40
Z-250	$\frac{23}{64}$ "	.20	Z-21	Short T Handle	.65
Z-251	$\frac{23}{64}$ " plus .001	.20	Z-22	Long T Handle	.85
Z-280	$\frac{1}{2}$ "	.20	ZB-3400	Metal Case	3.00
Z-380	$\frac{13}{32}$ "	.25			

Additional Units Not in Set

Inserted Type			Solid Type		
No.	Cutters	Price	No.	Cutters	Price
Z-5245	$1\frac{1}{2}$ " 45°	\$1.75	Z-5015	$1\frac{1}{2}$ " 15°	\$1.75
Z-5645	$1\frac{1}{2}$ " 45°	1.75	Z-5615	$1\frac{1}{2}$ " 15°	2.00
Z-6045	$1\frac{1}{2}$ " 45°	1.75	Z-6015	$1\frac{1}{2}$ " 15°	2.00
Z-6830	$2\frac{1}{2}$ " 30°	1.75	Z-8015	$2\frac{1}{2}$ " 15°	3.25
Z-6845	$2\frac{1}{2}$ " 45°	1.75	Z-6815	$2\frac{1}{2}$ " 15°	2.50
Z-8030	$2\frac{1}{2}$ " 30°	1.75			
Z-360	$\frac{1}{2}$ " Pilot	.20			

Seven irregularly spaced blades give a smooth shearing cut and prevent chatter. The cutters fit all standard No. 2 tapered pilots. Use them to bring your reseating set up to date.

The Name "Blue-Point" Guarantees the Quality

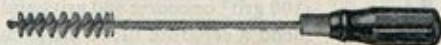
Carbon Removers Valve Guide Hole Scrapers

THE cutting blades on these scrapers are half round . . . slightly larger than the size of the valve guide hole. The end of the blade is tapered and when placed in the hole there is enough tension to keep the edges in proper scraping position. The blades actually cut the carbon but will not ream the metal . . . they can be sharpened on any grinder. These tools are not guaranteed.

GH-700 Set of 7 Carbon Scrapers \$2.80

GH-20— $\frac{5}{16}$ " Scraper \$0.40	GH-38— $\frac{19}{32}$ " Scraper \$0.40
GH-22— $\frac{11}{16}$ " Scraper40	GH-55— $\frac{25}{64}$ " Scraper40
GH-24— $\frac{3}{8}$ " Scraper40	GH-68— $1\frac{1}{8}$ " Scraper
GH-28— $\frac{7}{16}$ " Scraper40	for V-8 Fords40

Valve Guide Hole Brushes

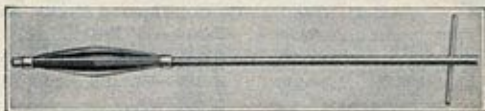


Well made brushes of spiral design. Highest quality wire brushes securely woven into the twisted wire handle. Fluted wood handle provides a good firm hand grip.

No.	Size	Each
AC-10	$\frac{3}{16}$ "	\$0.60
AC-11	$1\frac{1}{16}$ "	.60
AC-12	$\frac{3}{8}$ "	.60

No.	Size	Each
AC-18	$\frac{19}{32}$ "	\$0.60
AC-19	$1\frac{1}{16}$ "	.60

Valve Guide Hole Scraper



An expansion type valve guide hole scraper that will fit any size hole. Cutters made of finest clock spring steel . . . can easily be replaced if broken. Adjustment is made by turning the nut on end of shaft.

HC-5 Valve Guide Hole Scraper. Each \$0.75
HC-5-A Set of 5 extra blades. Per set25

Flexible Metal Scraper

Adapts itself to the shape of the surface to be cleaned . . . con-



cave, convex, round or angular, it's all the same to this handy tool. An oil pad in the handle keeps the wires free from rust . . . to sharpen—place a wood plug inside the wires and a rubber band around the outside and sharpen on an emery wheel. There's a thousand uses for this tool, and every mechanic, plasterer, painter, welder, electrician and all metal workers need one.

RS-9—Flexible Scraper. Each \$1.00

Blue-Point Carbon Scraper



A flexible wire carbon scraper designed to do a quick easy job and to give long and useful service. Blades made of

highest quality oil tempered spring steel with flexibility controlled by a sliding ferrule.

CS-1—Flexible Wire Carbon Scraper. Each \$0.35

None of the items listed on this page are guaranteed.

Removes That Carbon in a Hurry

Valve Seat Abrasive Grinders and Accessories



ARE YOU prepared to service the hard valve seats now being used on many of the new cars? Snap-on offers a combination which will do a better job than other units costing many times more. Interchangeable abrasive sheets are fitted snugly to die cast steel blocks accurate to 45° or 30° angles and will service about 85% of cars and trucks. Abrasives are furnished fine (100 grit) or coarse (80 grit) and we recommend a separate block for each type.

30 Degrees Abrasive Grinders

No. 730—2" x 45° Abrasive Grinder Block.	Each.	\$1.50
No. 740-A—45° Fine Abrasive Sheets, dozen		1.25
No. 740-B—45° Coarse Abrasive Sheets, dozen		1.25
No. 731—2 1/8" x 30° Abrasive Grinder Block	Each.	\$1.50
No. 741-A—30° Fine Abrasive Sheets, dozen		.50
No. 741-B—30° Coarse Abrasive Sheets, dozen		.50

The above tools fit any standard pilots and arbors, but we recommend and can supply the following units.

Z-21—Tee Handle and Tapered Shank. Each \$0.65

Z-200—5/16" Pilot	\$0.20	Z-240—3/8" Pilot	\$0.20
Z-201—5/16" plus .001	.20	Z-241—3/8" plus .001	.20
Z-202—5/16" plus .002	.20	Z-242—3/8" plus .002	.20
Z-203—5/16" plus .003	.20	Z-250—25/64"	.20
Z-210—7/64"	.20	Z-280—7/16"	.20
Z-220—11/32"	.20	Z-380—19/32"	.25

Electric Drill Attachments

These units adapt the above tools to electric drill units and provide a flexible joint connection.

No. 745—Ball Socket Drive	\$0.50
No. 747—Universal Socket Adaptor	.50
No. 746—Set. Comprising one each of these tools.	1.00



Cutter Arbor for Expansion Pilots

This unit is required for use with the Expansion Pilots listed below. The AT-496 Arbor Turning Wrench is used as a handle for this combination and offers an excellent adaptation of expanding pilots for those who require them.

No. CA-498—Cutter Arbor	\$1.65
AT-496—Arbor Turning Wrench	.50

Expansion Pilots



XP-580—5/16"	\$2.50	XP-584—3/8"	\$2.50
XP-581—7/64"	2.50	XP-585—1/16"	2.50
XP-582—11/32"	2.50	XP-586—1/2"	2.75
XP-583—3/8"	2.50		

Snap-on—Blue-Point—A Regular Dependable Service

Adaptor for Kwikway Arbors

KWIKWAY Valve Seat Reamers use a straight shank on their pilots, therefore it is necessary to use an adaptor to hold the abrasive grinders on Kwikway Pilots.



No. 749— $\frac{5}{8}$ " Pilot Shank Adaptor.....\$0.95

Abrasive Valve Seat Grinder for Chevrolet



THIS $1\frac{1}{2}$ " 45° head cannot be beaten as a glaze breaker or for grinding valve seats on Chevrolets. It will reface the average hard or soft seat accurately in one to two minutes. It will reduce the lapping-in-time at least seventy-five per cent. The discs are inexpensive and can be changed quickly. One abrasive will reseal twenty to fifty valve seats, depending on condition of seats.

The abrasive grinder, a speed wrench, and kerosene is all that is needed for quick, accurate results. Apply kerosene freely on abrasive to prevent clogging and rotate the grinder in both directions when grinding, the same as when lapping in valves.

No. 532— $1\frac{1}{2}$ " 45° Valve Seat Grinder, and one extra sheet.....\$1.50
 No. 729-S—Twelve Abrasives, six coarse, six fine......50
 Z-200— $\frac{3}{16}$ " Solid Pilot for models up to and including 1933. Each......20
 Z-220— $1\frac{1}{2}$ " Solid Pilot for 1934 and 1935 models. Each......20

Expansion Reamers



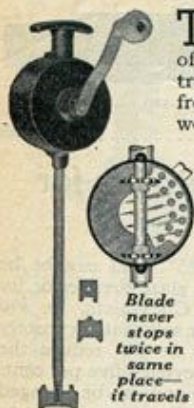
WE have a complete line of solid and expansion and adjustable type reamers. Write for special catalog if you are interested in this type of tool. Following are a few popular units.

1. They are made of a special analysis steel.
2. They can be expanded safely 50% more than any ordinary reamer, and will not break if left expanded to their capacity.
3. They always come back to their true size when expansion is released.
4. They will retain their cutting edge as long or longer than ordinary reamers.
5. They have a tapered cutter on the end of pilot to clear out the hole as work is started. This helps in obtaining greater accuracy.

Number	Size	Length	Price
R-734	.734	$9\frac{1}{2}$ "	\$6.95
R-750	$\frac{3}{4}$ "	$9\frac{1}{2}$ "	6.95
R-802	.802	$9\frac{1}{2}$ "	7.70
R-812	$\frac{13}{16}$ "	$9\frac{1}{2}$ "	7.70
R-875	$\frac{7}{8}$ "	10"	8.40
R-937	$\frac{15}{16}$ "	$10\frac{1}{2}$ "	9.15
R-990	.990	11"	9.85
R-1000	1"	11"	9.85

Ask for Special Reamer Catalog—36-BA

Blue-Point Valve Grinder



THE sturdiest and smoothest operating tool of its kind. Pinion gears milled from solid bars of high carbon alloy tool steel, carefully heat treated and hardened. Large gear stamped from $\frac{1}{8}$ " steel properly hardened to withstand wear. Shaft made from cold rolled steel—ball bearing thrust.

The blade turns forward and backward in rapid oscillating motion and advances $\frac{1}{16}$ th revolution for each single revolution of the crank. A real tool that will stand up in shop use and last indefinitely.

VG-1—Valve Grinder, with one stem as illustrated. Each.....\$2.75

VG-2—Valve Grinder, with two stems, one long, one short. Each.....\$3.00

Air Valve Lapper

LIGHT—fast—durable, and smooth. Its very simplicity of operation and small number of parts assures an efficient working machine at all times.

Any speed from zero to two or three thousand strokes per minute is instantly controlled by applying or releasing downward pressure against the valve.

QUICK: Its high speed allows using fine grinding compound and yet finish the job in about one-half the usual time. Two thousand strokes per minute is a normal speed for this tool.

SMOOTH: It grinds smoothly with absolutely no danger of marring the valve, providing a smooth seat that cannot be improved by hand and screw driver method.

VL-40—Air Lapper Tool only.....\$15.00

VL-41—Air Hose and Air Chuck Clamp Attachment... 2.00

VL-46—Air Lapper, complete with Hose and Clamp..... 17.00



Ford Valve Suction Cup

S-9051—Holds valve properly for final grinding-in process. Fits shaft of Blue-Point Valve Grinder. Made of the very highest grade rubber. Each....10c

Piston Ring Groove Cleaner



Handles all pistons from the smallest to 6" diameter. Cutter blades cover $\frac{1}{16}$ " to $\frac{1}{4}$ " grooves. It will deepen grooves for the installation of inner rings and will not gouge, catch in oil holes or climb out of the groove. Instantly adjustable to any size piston. The tilting cutter arm is controlled by a compensating spring which maintains uniform working tension and provides the non-chatter action necessary to obtain a smooth, clean surface. Cutters are easily resharpened by grinding on inside face—do not grind ends of cutter.

RC-37—Ring Groove Cleaner Complete with RC-37-A Cutter.....\$1.50

RC-37-A—Extra cutter with $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " blades. Each......50

The Name "Snap-on" Stands for Extreme High Quality

Piston Ring Compressor

ONE of the finest tools for this work that we have ever been privileged to offer. The tool only has one compressing band and is truly universal, taking all sizes from 2½" up to and including 4". Ten adjustments are provided on this one band, and a new feature of the tool is a sliding locking clamp which locks the compressed tool at any desired position. Handles are not fastened to the band but grip onto two gripping shoulders when necessary and are removed after the band is locked, simply by releasing the hand grip.

The band is made of finest Clock Spring Steel, insuring long life and perfect shape.

RC-16—Piston Ring Compressor..... Each \$1.50

Parts included with the RC-16

RC-16-1—Handle only.....	\$0.70
RC-16-A—Auto Band Complete. Contains the four following parts.....	1.00
RC-16-D—Small Outer Band.....	.50
RC-16-E—Large Inner Band.....	.30
RC-16-F—Loose Adjusting Clip.....	.15
RC-16-G—Locking Clip.....	.05

Extra bands available for truck and tractor work—not included with RC-16.

RC-16-B—Truck Band 4"—5½"..... \$1.10

RC-16-C—Tractor Band 5½"—7"..... 1.20

Note: Bands are not guaranteed.



RC-26 Ring Compressor

A strong, low priced tool featuring the following points:

1. Covers all sizes in the passenger car range.
2. Can be used from below on all car models.
3. Is convenient to use, simple and strong in construction.
4. The center band is compressed by turning the slotted arm with the detachable Tee Handle.
5. Works on all cars including Terraplane.

RC-26—Piston Ring Compressor. Each..... \$0.95

No. 201—Extra Compression Band..... .35

No. 202—Extra Tension Band..... .20

Note: Bands are not guaranteed.



Piston Ring Groove Cleaner

No. 51-P

Designed to service all pistons from the smallest to the large truck and bus sizes.

The arm, which rides in the ring groove, is thin enough to allow use in the smallest grooves... the cutter which prevents chattering and gives a clean, smooth finish. Cutter locks in each of the four blade size positions. The sleeve slides in the handle for adjustment to different size pistons.

is held firmly in place and backed by a compensating spring in the sleeve which prevents chattering and gives a clean, smooth finish. Cutter locks in each of the four blade size positions. The sleeve slides in the handle for adjustment to different size pistons.

51-P—Ring Groove Cleaner, complete with CW-3 Cutter. Each... \$2.50

CW-3—Extra Cutter with ½", ⅜", ¼", ⅓" blades. Each..... .50



Precision Built to do a Better, Easier Job

Tydeman Pin Fitter

(For all small bearings)

THE fit of the pins can make the difference between a smooth running engine and a knocker and most pin troubles are due to the 25% or less bearing surface secured by old methods of enlarging holes of small diameter.

The Tydeman Pin Fitter gives from 75% to 90% bearing surface at lower cost, without doubt the most accurate and economical tool of its kind on the market.

Micrometer Adjustment

The distinct advantage of this tool over all other methods is its ability to take out as little or as much as desired. The micrometer adjustment lets you know just how much stock you are cutting away.

**Cuts
Shop
Costs**

This tool will pay for itself in a short while, it does a better job and costs less to operate than any tool on the market. The cost of the grinding sheets is cheaper than sharpening reamers. One pair of grinding sheets is guaranteed to fit twelve piston pins—five thousandths oversize, when used according to instructions. It cuts uniformly in cast iron, bronze and Iyanite and is also very efficient in hardened steel bushings.



As used on Pistons

Faster

The Expansion Speed Sleeve is found only on the Tydeman hone. By its use a set of six pistons can be fitted in from twenty to thirty minutes.

A Real Precision Tool

This is a real precision instrument and is held to extremely close tolerances. Every part is made of the very best material for the work required. All parts are guaranteed against defects in material or workmanship.

Prices on Pin Fitter

No. 1 Unit—Consists of No. 1 Body with following sets of blades and 7 sets of grinding sheets in case.

$.735''$ to $1\frac{1}{8}''$	$1\frac{1}{8}''$ to $1''$
$1\frac{1}{8}''$ to $1\frac{1}{4}''$	$1''$ to $1\frac{1}{16}''$
$1\frac{1}{4}''$ to $1\frac{1}{2}''$	$1\frac{1}{16}''$ to $1\frac{1}{8}''$

No. 1 Unit—Complete in case

.....\$27.50

No. 1 Body—With any one of above

sets of blades.....\$14.00

Any set of No. 1 Blades, per set

.....\$3.50

Set of small Blades $.703''$ to $.750''$, per set.....\$3.50

No. 2 Unit—Consists of No. 2 Body with following sets of blades and 7 sets of grinding sheets.

$1\frac{1}{4}''$ to $1\frac{1}{2}''$	$1\frac{1}{2}''$ to $1\frac{3}{8}''$
$1\frac{1}{2}''$ to $1\frac{3}{4}''$	$1\frac{3}{8}''$ to $1\frac{1}{2}''$
$1\frac{3}{4}''$ to $1\frac{7}{8}''$	$1\frac{7}{8}''$ to $1\frac{1}{2}''$

No. 2 Unit—Complete in case

.....\$39.50

No. 2 Body—With any one of above

sets of blades.....\$22.50

Any set of No. 2 Blades, per set

.....\$4.50

Set of small Blades $.703''$ to $.750''$, per set.....\$3.50

Grinding Sheets

When ordering, specify whether Coarse or Fine is desired, also size No. 1 or 2 as shown below.

No. 1— $.735''$ to $1\frac{1}{8}''$, per dozen

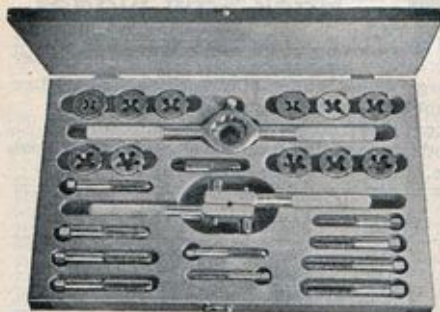
sets.....\$2.75

No. 2— $1\frac{1}{8}''$ to $1\frac{1}{2}''$, per dozen

sets.....\$3.00

Precision Shop Equipment Pays Big Dividends

Blue-Point Tap and Die Sets



A QUALITY set of the most necessary sizes of taps and dies required for use on automobiles. The dies are adjustable to give a loose or tight fit to your thread—combines all the advantages of a solid die with those of a split die. Small adjustment screw can change the actual size from .001 to .003

over or under. Contains eleven taps and eleven dies covering a range in S.A.E. and U.S.S. threads $\frac{1}{4}$ " to $\frac{1}{2}$ ", also a $\frac{1}{8}$ " pipe size. Chrome plated Die Stock and adjustable Tap Wrench.

TD-2400 Set

Containing one each of the following units, neatly packed in a solid mahogany box.....\$8.75

Contents of Set

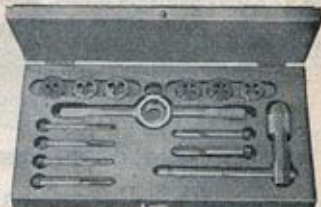
TD-1 Die Stock.....	\$1.15	T-100 $\frac{1}{4}$ " x 20 Tap U.S.S....	\$0.30
TD-2 Tap Wrench.....	.75	T-101 $\frac{1}{4}$ " x 18 Tap U.S.S....	.30
D-010 $\frac{1}{4}$ " x 20 Die U.S.S....	.40	T-102 $\frac{3}{8}$ " x 16 Tap U.S.S....	.30
D-011 $\frac{5}{16}$ " x 18 Die U.S.S....	.40	T-103 $\frac{1}{2}$ " x 14 Tap U.S.S....	.30
D-012 $\frac{3}{8}$ " x 16 Die U.S.S....	.40	T-104 $\frac{1}{2}$ " x 13 Tap U.S.S....	.30
D-013 $\frac{7}{16}$ " x 14 Die U.S.S....	.40	T-105 $\frac{3}{4}$ " x 28 Tap S.A.E....	.30
D-014 $\frac{1}{2}$ " x 13 Die U.S.S....	.40	T-106 $\frac{3}{4}$ " x 24 Tap S.A.E....	.30
D-015 $\frac{5}{8}$ " x 28 Die S.A.E....	.40	T-107 $\frac{3}{4}$ " x 24 Tap S.A.E....	.30
D-016 $\frac{3}{4}$ " x 24 Die S.A.E....	.40	T-108 $\frac{1}{2}$ " x 20 Tap S.A.E....	.30
D-017 $\frac{7}{8}$ " x 24 Die S.A.E....	.40	T-109 $\frac{1}{2}$ " x 20 Tap S.A.E....	.30
D-018 $\frac{1}{2}$ " x 20 Die S.A.E....	.40	T-110 $\frac{1}{8}$ " Pipe Tap.....	.30
D-019 $\frac{3}{4}$ " x 20 Die S.A.E....	.40	D-020 $\frac{1}{8}$ " Pipe Die.....	.40

TD-2500 Junior Set

INCLUDING six Taps and six Dies with a chrome plated Die Stock and Adjustable Tap Wrench. Sizes carefully selected to give the most popular small sizes. Die is adjustable for tight or loose fit same as the larger size shown above.

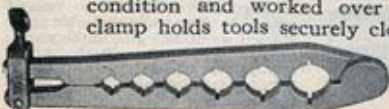
TD-2500 Junior Tap and Die Set. Containing one each of the following items in wood case.....\$4.95

T-111 Tap 4 x 36.....	\$0.20	D-021 Die 4 x 36.....	\$0.30
T-112 Tap 6 x 32.....	.15	D-022 Die 6 x 32.....	.30
T-113 Tap 8 x 32.....	.15	D-023 Die 8 x 32.....	.30
T-114 Tap 10 x 24.....	.15	D-024 Die 10 x 24.....	.30
T-115 Tap 10 x 32.....	.15	D-025 Die 10 x 32.....	.30
T-116 Tap 12 x 24.....	.15	D-026 Die 12 x 24.....	.30
TD-3—Junior Die Stock.....	\$1.00		
TD-4—Junior Tap Wrench.....	.65		



Axle Rethreading Tool

SIX of the most generally used sizes in one handy tool. Can be clamped around that part of axle where thread is in good condition and worked over the damaged part. End clamp holds tools securely closed. Takes sizes $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", 1", $1\frac{1}{8}$ " and $1\frac{1}{4}$ ".



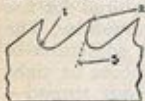
AR-6 Axle Rethreader.
Each.....\$6.00

You Can Buy a Bigger But Not a Better Set



High Speed Hack Saw Blades

THE finest grade high speed blade on the market . . . will outcut and outlast several ordinary blades.



1. Large round gullet allows chips to curl free and not clog in teeth—prevents breakage.
2. Keen, sharp edge insures long life.
3. Undercut tooth requires less pressure per stroke. Less strokes to cut piece.

Stock No.	Length	Width	Thickness	Teeth Per Inch	Price Each
FHS-1018	10"	$\frac{3}{8}$ "	.025"	18	\$0.30
FHS-1024	10"	$\frac{3}{8}$ "	.025"	24	.30
FHS-1218	12"	$\frac{3}{8}$ "	.025"	18	.35
FHS-1224	12"	$\frac{3}{8}$ "	.025"	24	.35

Blue-Point Hack Saws

MADE by special process from select tungsten steel to insure a tough, uniform temper and degree of hardness throughout the entire blade . . .

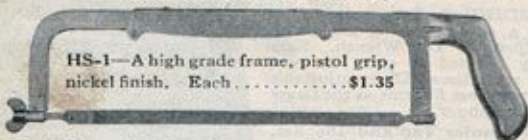


They cut faster, easier, and retain their cutting power longer. Blue-point Hack Saw Blades are the result of many years experience in blade manufacture and of the highest possible quality.

Package (12 Blades) Stock No.	Length and Width	Gauge Thickness	Teeth per Inch	Blade Series	Price per Pkg.
HS-1032	10" x $\frac{1}{2}$ "	.025	32	Fine	\$0.95
HS-1232	12" x $\frac{1}{2}$ "	.025	32	Fine	1.15
HS-1024	10" x $\frac{1}{2}$ "	.025	24	Medium	.95
HS-1224	12" x $\frac{1}{2}$ "	.025	24	Medium	1.15
HS-1018	10" x $\frac{1}{2}$ "	.025	18	Coarse	.95
HS-1218	12" x $\frac{1}{2}$ "	.025	18	Coarse	1.15

No. 10 Assortment—24 Blades, 12 Medium, 12 Coarse . . . \$1.90
No. 12 Assortment—24 Blades, 12 Medium, 12 Coarse . . . 2.30

Hack Saw Frame



HS-1—A high grade frame, pistol grip, nickel finish. Each . . . \$1.35

Blue-Point Junior Hack Saw

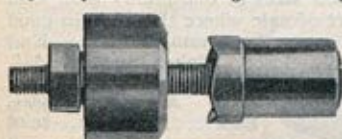


A-51—The ideal saw for use in very close quarters. Sturdy construction, holding the blade with a powerful, non-buckling grip. Blades 6" x $\frac{3}{16}$ ", with 32 teeth to the inch.

A-51—Junior Hack Saw complete with one blade . . . \$1.15
No. 6—Packet of twelve blades75
Broken lots, any type, per blade10

Round Hole Cutters

Especially useful for cutting holes through dash for radio and heater mounting



. . . Cuts through padding and steel in one operation . . . cuts clean—thoroughly—leaves no ragged edges. As these tools are liable to be abused we do not guarantee them.

HC-24— $\frac{3}{8}$ " Cutter. Each . . . \$2.25
HC-32—1" Cutter. Each . . . 2.35
HC-36—1 $\frac{1}{2}$ " Cutter. Each. 2.45
HC-40—1 $\frac{3}{4}$ " Cutter. Each. 2.55

Quality Units Required in Everyday Service

Circular Hole Saws



the other $1\frac{3}{8}$ " to $3\frac{1}{2}$ " diameter. Note: The saw blade being spot welded around the outside of mandrel flange, it can be used the full depth of the tool and in exceedingly close places. Hole saws cannot be guaranteed.

No.	Dia. of Saw	Price	No.	Dia. of Saw	Price
HS-24-A	$\frac{3}{4}$ "	\$0.75	*HS-72-A	$2\frac{1}{4}$ "	\$1.75
HS-28-A	$\frac{7}{8}$ "	.75	*HS-76-A	$2\frac{3}{8}$ "	1.75
HS-32-A	1"	.75	*HS-80-A	$2\frac{1}{2}$ "	1.75
HS-36-A	$1\frac{1}{8}$ "	.75	*HS-84-A	$2\frac{3}{4}$ "	1.75
HS-40-A	$1\frac{1}{4}$ "	.75	*HS-88-A	$2\frac{7}{8}$ "	1.75
HS-44-A	$1\frac{1}{2}$ "	.75	*HS-92-A	$2\frac{3}{4}$ "	1.75
HS-48-A	$1\frac{3}{4}$ "	1.00	HS-96-A	3"	1.75
*HS-52-A	$1\frac{3}{4}$ "	1.00	*HS-100-A	$3\frac{1}{8}$ "	1.75
*HS-56-A	$1\frac{3}{4}$ "	1.25	*HS-104-A	$3\frac{1}{4}$ "	1.75
*HS-60-A	$1\frac{3}{4}$ "	1.25	*HS-108-A	$3\frac{3}{8}$ "	1.75
*HS-64-A	2"	1.25	*HS-112-A	$3\frac{1}{2}$ "	1.75
*HS-68-A	$2\frac{1}{8}$ "	1.75			

HS-31 Mandrel with $\frac{1}{4}$ " Pilot Drill. (Fits saws $\frac{3}{4}$ " to $1\frac{1}{2}$ " diameter.) Each.....\$1.00

HS-33 Mandrel with $\frac{1}{4}$ " Pilot Drill. (Fits saws $1\frac{1}{4}$ " to $3\frac{1}{2}$ " diameter.) Each.....\$1.00

*Not Carried in Stock . . . Shipped on special order basis.

Wood Handles for Files

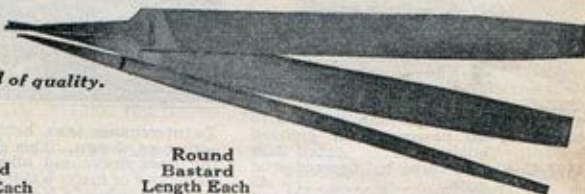


Birch Handles with a special die-cast metal ferrule which fully supports the handle against splitting at the file tang opening. It is a handle that will give long satisfactory service.

102-E—For 6" and 8" files. Each.....	11c
103-E—For 8" and 10" files. Each.....	12c
104-E—For 12" and 16" files. Each.....	14c

Blue-Point Files

Built to the Blue-Point standard of quality.



Mill Bastard		Round Bastard		Half Round	
Length Each		Length Each		Length Each	Length Each
6'....	\$0.22	6'....	\$0.22	6'....	\$0.39
8'....	.28	8'....	.28	12'....	\$0.75
10'....	.36	10'....	.36	8'....	.48
12'....	.48	12'....	.48	14'....	.98
14'....	.68	14'....	.68	10'....	.58
16'....	.93			16'....	1.30

Tungsten Ignition Point File



Double cut tungsten file, the type preferred by most mechanics for filing ignition points. 5" long. Each..... 10c

Blue-Point Thread Restorers

A few strokes across battered threads produces a true new thread—nut will then go on easily.

No. 1124 Thread Restorer—has 8 thread sizes—11, 12, 13, 14, 16, 18, 20, and 24 threads to the inch. Each.....	\$1.60
No. 1127 Thread Restorer—has 9, 10, 15, 16, 20, 26, 28, and 32 threads to the inch. Each.....	\$1.60

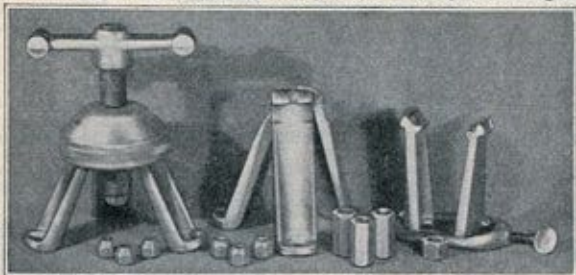
Make Snap-on Your Tool Headquarters

Universal Wheel Puller

*Interchangeable Jaws Adapt it to all
Demountable Wheel Hubs and all Ford Cars*

DOES every job efficiently . . . without waste of time . . . without danger to any part of the car . . . without danger to the operator—services all passenger cars and light trucks and pays you big dividends on a modest investment. Interchangeable jaw feature protects your investment . . . Economize on wheel pulling equipment with the tool designed to adapt additional jaws to future types of hub construction.

Jaws pivot and swing to any desired bolt circle. Pulling is always directly from the housing flange and the jaws are automatically self-centering, providing a positive direct pull regardless of the working angle of the jaws . . . No other universal Wheel Puller has this important self-aligning feature, and on no other puller can the jaws be so quickly and easily interchanged.



Y-4567 Complete Universal Wheel Puller Set

Y-4567 Wheel Puller Set—Will service all passenger cars and most light trucks with demountable type wheels. Contains all the following parts described below and illustrated above. . . . \$23.80

4567-P—Body and Drive Assembly—contains the following parts:
4567-A-BB-DD-EE-F

4567-A—Screw and Handle . . . \$2.00
4567-BB—Body . . . 7.00
4567-DD—Sleeve . . . 1.50
4567-EE—Washer10
4567-F—Spring15

4567-G—Set of three short jaws . . . 3.00

4567-H—Set of three long jaws . . . 3.75

4567-V—Ford passenger car grooved hub set . . . 3.90

4567-C—Set of three $\frac{3}{16}$ " tapered stud nuts45

4567-CC—Set of three $\frac{1}{4}$ " tapered stud nuts45

4567-I—Set of three, right and left hand $\frac{3}{4}$ " stud nuts . . . 1.50



To interchange jaws, hold two together as shown. This depresses the inner sleeve and allows room to remove or insert a third jaw . . . It only takes a jiffy.

W-4567 Wheel Puller Set—Services practically all passenger cars and light trucks except 1936 Ford V-8 and Lincoln Zephyr. Contains the following parts . . . \$19.45

4567-P—Body and Drive Assembly . . . 10.75

4567-G—Set of 3 short jaws . . . 3.00

4567-H—Set of 3 long jaws . . . 3.75

4567-C—Set of 3 $\frac{3}{16}$ " stud nuts45

4567-I—Set of 3 right and left hand $\frac{3}{4}$ " stud nuts . . . 1.50



W-4567 Wheel Puller Set

Makes the Tightest Wheel Say "Uncle"

S-4567 Standard Wheel Puller



No Parts to Adjust . . .

No Nuts to Tighten

FAST SAFE SURE

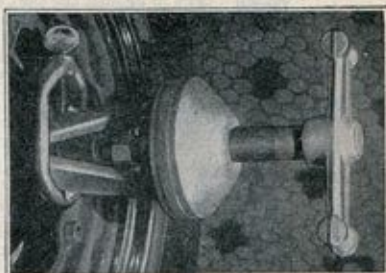
THE principle of this patented drive pressure screw is known to be the fastest, easiest, and most efficient method of removing hubs. Screw machined from special alloy steel . . . all parts carefully machined and heat treated for maximum strength.

S-4567 Wheel Puller—Will service a majority of passenger cars except Ford and Lincoln Zephyr. Comprised of 4567-P Body and drive assembly and 4567-G set of 3 short jaws. **\$13.75**

Special Jaws for Ford Cars

SERVICES all Fords 1928 to 1937, also the Lincoln Zephyr. Special Ford attachment consists of four parts—two jaws, clamp and thrust nut. Jaws are inserted in the 4567-P Body, placed around the grooved hub and locked on with the clamp. A few hammer blows on the drive handle removes the tightest hub . . . for trucks the 4567-H Set of 3 long jaws is required.

4567-V Ford Grooved Hub Set **\$3.90**



Use Thrust Nuts and Protect the Axles

Blue Point Thrust Nuts should be used on small and medium sized axles in order to protect the threads while pulling the hub. It takes time to clean up or re-cut threads after they have been damaged—use thrust nuts and protect axle threads. Not Guaranteed.



TN-1300—Set of 13 Thrust Nuts listed below **\$6.80**

TN-201— $\frac{5}{8}$ " x 18, $\frac{3}{4}$ " long . . . **\$0.40**

TN-202— $\frac{5}{8}$ " x 18, 2" long **.60**

TN-241— $\frac{5}{8}$ " x 16, $\frac{3}{4}$ " long **.40**

TN-242— $\frac{5}{8}$ " x 20, 2" long **.60**

TN-243— $\frac{5}{8}$ " x 16, 2" long **.60**

TN-261— $\frac{13}{16}$ " x 16, $\frac{3}{4}$ " long . . . **.40**

TN-281— $\frac{7}{8}$ " x 14, $\frac{3}{4}$ " long **.40**

TN-282— $\frac{7}{8}$ " x 18, $\frac{3}{4}$ " long . . . **\$0.40**

TN-283— $\frac{7}{8}$ " x 14, 2" long **.60**

TN-321—1" x 14, $\frac{3}{4}$ " long **.40**

TN-322—1" x 14, 2" long **.60**

TN-401—1 $\frac{1}{4}$ " x 12, $\frac{3}{4}$ " long . . . **.60**

TN-402—1 $\frac{1}{4}$ " x 12, 2 $\frac{1}{2}$ " long . . **.80**

Special Parts Needed for Buick and Packard

4567-HB—Set of three special jaws for Buick series 80—1931-'32 and series 90—1933-'34-'35 **\$3.75**

4567-CP—Set of three stud nuts for use with Packards **1.20**



Additional Jaws Can Be Added if Necessary

Most hubs only require a 3-point pull, but the Blue-Point Puller accommodates four or five jaws should any future hubs require them . . . another reason for buying Blue-Point.

Write for Special Wheel Puller Folder

Universal Puller Tool

Booster Hammer Principle

1. Booster Hammer gives a sudden, powerful blow, guided by the slide shaft in the same direction as the pull.
2. The guided blow combined with the center screw tension is much more effective than any other pulling force.
3. The pulling force is distributed equally on all sides—an important point as an uneven pull causes the part being pulled to bind.

Combination 2 and 3-Way Yoke

The 2-Way Throw is used with the Small Jaws for internal pulling jobs, sprockets, generator work, etc. The large jaws can be used on this throw for heavy work or where the three-way throw cannot be used.

The 3-Way Throw is used with the large jaws for Fan Hubs, pulleys and other external pulling jobs.

The Adjusting Nut and Spring hold the jaws at the desired position for attachment to the job and locks the jaws in against the part being pulled.

The Spreader Disc fits on the end of the shaft to spread the jaws for internal pulling work.

The Short Puller Screw adapts the tool to many jobs where the use of the longer handle is not practical. Booster hammer is not used with the short puller which can be turned with a wrench or the bar handle to obtain the necessary pressure.

Important Features

1. Simplicity of design—Easy and quick to use.
2. Shocking blow is in the direction of the work and not against the work.
3. Operator centers the blow, avoids possibility of binding.
4. Combination Yoke saves time—always ready for use.
5. New Yoke Pins save time on every change of jaws.
6. Spring retainer holds jaws open at any desired point.

7. Takes such jobs as the following: Sleeves of all types using roller bearings; Frozen Axle or Pinion Shafts; Generator Starter Bearings and Gears; Fan Hubs and Pulleys, Timing Gears; Grease Retainers and Spring Hangers; Many Bushings, Bearings, Universal Joint Flanges, Pitman Arms; Bearings recessed in tubular members. Can be used as Valve Guide Extractor and many other pulling jobs.

Max. spread of large jaws on 3-way pull $6\frac{1}{4}"$.
Min. spread of small jaws for placing through hole for inner pulling job $\frac{1}{2}"$.

Complete CJ-66 Set

Containing Long Puller Screw, Hammer, Yoke, 3 Large Jaws, 2 Small Jaws, Adj. Nut, 2 Spreader Discs, Spring, 3 Yoke Pins, Centering Adaptor and Bar Handle. \$17.95

Universal Puller Tool Parts

Number	Description	Each
66-1	Long Puller Screw	\$2.45
66-12	Short Puller Screw (not included in Set)	1.80
66-2	Booster Hammer	3.05
66-3	Combination Yoke	3.95
66-A5	Large Jaws (External Pulling)	1.15
66-A6	Small Jaws (Internal Pulling)	1.10
66-7A	Adjusting Nut	1.40
66-8	Spreader Disc ($1\frac{3}{4}"$ diam.)	.35
66-8-1	Spreader Disc ($1\frac{1}{4}"$ diam.)	.30
66-9	Yoke Pin	.15
66-10	Centering Adaptor	.30
66-11	Spring Retainer	.10
10-F	Bar Handle	.25



2-Way Hook-Up. Note Use of Spreader Disc



Universal—It Services All Kinds of Gear Pulling Jobs

Bearing Race Remover

BUILT solidly and compactly for removing tight bearing races of all kinds. Booster Hammer principle gives a powerful blow in the same direction as the pull.

Made in two sizes BR-15 for passenger cars and with a gripping range of $1\frac{3}{4}"$ to $3"$; and BR-16 for trucks and busses with gripping range from $2\frac{7}{8}"$ to $5"$. Gripping unit has three fingers with flange that grips as they are expanded behind the bearing race, even when the race is flush with the housing.

BR-15 Tool. Complete \$ 9.25
BR-16 Tool. Complete 14.75

Individual Parts Prices

Description of parts for	BR-15	BR-16
Shaft.....	BR-15-A \$1.45	BR-16-A \$1.70
Body.....	BR-15-B 1.50	BR-16-B 2.50
Fingers (set of 3).....	BR-15-C 2.55	BR-16-C 4.50
Hammer.....	BR-15-D 1.95	BR-16-D 2.75
Small Exp. Plug.....	BR-15-E ..... .45	BR-16-E 1.00
Large Exp. Plug.....	BR-15-EE ..... .90	BR-16-EE 1.50
Ext. Large Exp. Plug.....	BR-15-EEE 1.00	
Spring.....	BR-15-F ..... .25	BR-16-F ..... .50
Finger Pins (set of 3).....	BR-15-G ..... .30	BR-16-G ..... .30
Key for Plugs.....	BR-15-H ..... .10	BR-16-H10

Axle Pulling Adaptors

A COMPLETE range of Axle Adaptors for use with the BR-15 Bearing Race Puller. Unscrew the Gripping unit from the end of the shaft and replace with the required axle adaptor.

BR-900 Set of Axle Adaptors \$6.75

Individual Prices on Axle Adaptors

BR-2018 $\frac{5}{8}"$ 18.....	\$0.70	BR-2814 $\frac{3}{4}"$ 14.....	\$0.75
BR-2416 $\frac{3}{4}"$ 16.....	.70	BR-3214 1" 14.....	.95
BR-2420 $\frac{3}{4}"$ 20.....	.70	BR-3612 $1\frac{1}{4}"$ 12.....	.95
BR-2616 $1\frac{1}{2}"$ 16.....	.75	BR-4012 $1\frac{1}{4}"$ 12.....	1.05
BR-2818 $\frac{3}{4}"$ 18.....	.75		

Axle Pulling Attachment

TAKES all sizes—is quick and easy to use. Used with the BR-15 Bearing Race Puller and is screwed onto end of shaft in place of the regular gripping unit. The three fingers give a tight grip against the axle nut and a few blows

of the booster hammer will pull the axle.

BR-9 Universal Axle Pulling Attachment..... \$5.50

BR-19 Complete with BR-15-A Shaft and BR-15-D Hammer..... 8.90

Grease Retainer Puller

ACCCLAIMED by those who have used it as the best tool ever offered for pulling grease retainers, this unit has found instant popularity. The thin, tapered jaws are pressed together, inserted through the grease retainer, and then allowed to expand to their normal open position behind it. The shaft and hammer of the BR-15 tool shown above, are used with this unit to provide the pulling action.

BR-10 Grease Retainer Puller. Each..... \$1.50
BR-15-A Puller Shaft. Each..... 1.45
BR-15-D Sliding Hammer. Each..... 1.95

Tools Like These Mean Increased Profits



Pilot Bearing Puller

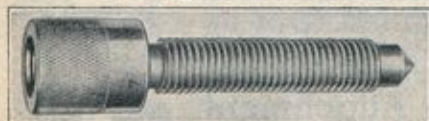


SPEED—safety—convenience. These are the three most important factors on any pulling job, and here is the tool that guarantees complete satisfaction on all pilot-bearing pulling operations. It services all pilot bearings from $1\frac{1}{32}$ " to $1\frac{3}{16}$ " by means of a series of expanding collets, which grip the bearing tightly when expanded. The tool is designed for use with the shaft and hammer of the CJ-66 tool illustrated on page 124, but can be adapted by owners of BR-15 tool illustrated on page 127, to the shaft and hammer of that tool by means of an adaptor.

A-60 Pilot Bearing Puller. Complete with No. 66-1 Puller shaft and No. 66-2 Booster Hammer, pilot, and 8 collets. **\$11.10**

A-60-2—Pilot.	Each	.....	\$0.45
A-60-3—.590" Expanding Collet.	Each	.....	.60
A-60-4—.625" Expanding Collet.	Each	.....	.60
A-60-5—.668" Expanding Collet.	Each	.....	.60
A-60-6—.718" Expanding Collet.	Each	.....	.60
A-60-7—.750" Expanding Collet.	Each	.....	.65
A-60-8—.786" Expanding Collet.	Each	.....	.65
A-60-9—.984" Expanding Collet.	Each	.....	.70
A-60-10—1.181" Expanding Collet.	Each	.....	.75
No. 66-1—Puller Shaft.	Each	.....	2.45
No. 66-2—Booster Hammer.	Each	.....	3.05
A-60-1—Adaptor to BR-15 tool.	Not included		
with the No. A-60 Puller.	Each	.....	.50

Adapter for CJ-66 Puller



**Adapts BR-15
Parts to the
CJ-66 Puller**

THE many shops now owning our

CJ-66, and wanting to make use of the various attachments for the BR-15, are now able to adapt these BR-15 attachments to their CJ-66 Universal Puller by means of the new A-67 Adaptor. By the use of this adaptor the CJ-66 can be used for a great many new jobs and its general utility is greatly increased.

Simply remove the yoke, adjusting nut, etc., and attach the adaptor in its place, and in turn attach any BR-15 part to the adaptor.

A-67—Adaptor for CJ-66. **\$1.25**

Axle Puller for Semi-Floating Axles

BOLTS right onto the axle flange on semi-floating axles such as used on Pontiac, Oldsmobile, etc. Made in 2 center hole sizes . . . one for use with CJ-66 Puller, one for use with BR-15 Puller. Simply screwed onto the shaft in place of the regular pulling attachment . . . A few blows with the sliding hammer will pull the tightest axle.

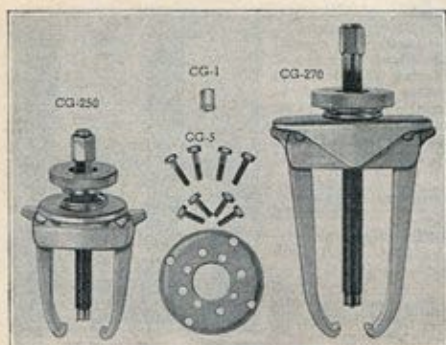
CJ-67-1—Attachment for CJ-66. Each . . . **\$1.80**

CJ-67-2—Attachment for BR-15. Each . . . **1.80**



Take Time to Inspect the Snap-on Salesman's Samples

Blue-Point Gear Pullers



SIMPLE in construction . . . effective and efficient on the job. Unlike other pullers, the jaws are not awkward to handle and place in position . . . a spring-locked plate with adjustable tension holds the jaws in working position until you are ready to apply pressure. Simply open up the jaws and snap them around the job. The yoke has two positions for each jaw. This tool is supplied in two sizes.

CG-250—Gear Puller. Max. spread for outside pulling $4\frac{1}{2}$ "

inside pulling it can be inserted in openings $1\frac{1}{4}$ " to $3\frac{1}{4}$ " diameter. Each \$5.95

CG-270—Gear Puller. Max. spread for outside pulling $8\frac{1}{2}$ ", for inside pulling it can be inserted in opening $2\frac{1}{4}$ " to 7" diameter. Each \$10.00

CG-1—Circular Plate Attachment. For water pump and generator pulleys, etc. Not Guaranteed \$0.95

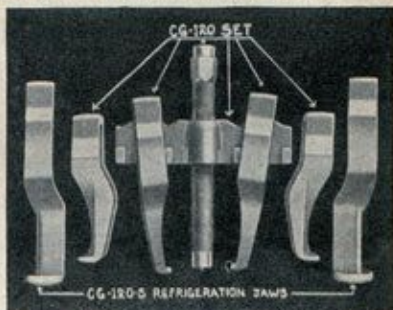
CG-5—Screw Extension. Use to protect screw when used on shaft without a center hole. \$0.20

Individual Parts Prices

For CG-250	Description	For CG-270
CG-250-1 \$0.95	Screw	CG-270-1 \$1.50
CG-250-2 1.70	Yoke	CG-270-2 2.50
CG-250-395	Jaw (2 needed)	CG-270-3 1.40
CG-250-525	Washer	CG-270-5 1.60
CG-250-620	Spring	CG-270-620
CG-250-795	Adjusting Nut	CG-270-7 1.40

Gear Puller for Small Jobs

HANDLES inside and outside pulling work on all tight-pulling jobs, such as generator gears, etc. A $\frac{3}{4}$ " hexagon nut on end of power screw provides for application of a wrench. Jaws are reversible for internal and external jobs simply by reversing their position on the yoke. Three jaw adjustments are provided on each side of the yoke for narrow, medium, or wide pulling positions, and the three types available cover a multitude of pulling jobs. (The bent jaws can be used to fit over cap-screws when the gear is tapped.) Max., jaw spread $4\frac{3}{4}$ ", Min., jaw spread for inner pulling $1\frac{1}{8}$ ".



CG-120—Gear Puller. Complete with set of 2 Bent Jaws and set of 2 Straight Jaws. Each \$5.00

CG-120-1—Screw Handle only. Each .95

CG-120-2—2-way Yoke only. Each 1.25

CG-120-3—Bent Jaws, Each (2 required) .70

CG-120-4—Straight Jaws, Each (2 required) .70

Special Refrigeration Jaws

Designed for pulling the fan and pulley assembly. Every Refrigeration service department will find this puller of great value.

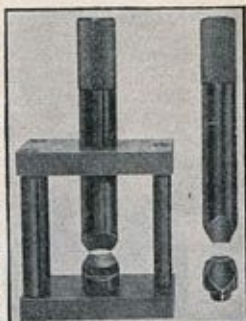
CG-120-5—Refrigeration Jaws, set of two \$1.60

Built to Service the Toughest Gear Pulling Jobs

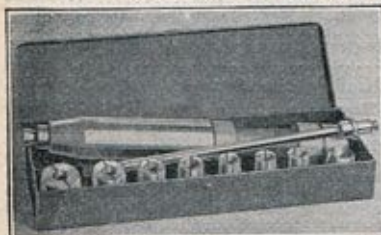
Axle Bearing Remover

REMOVES bearings from axles of Chrysler, Dodge, Plymouth, De Soto, Chevrolet, and any other car where two bearings are placed tightly together. The knife edged anvil and swedge are used to start forcing the bearings apart and the other three sizes used for completing the job. Each anvil and swedge has two sizes. The tool is made from the very finest tool steel heat treated to withstand wear and tear, but due to the nature of its work it cannot be guaranteed.

BR-35 Axle Bearing Remover. Complete.....	\$9.75
BR-35-1 Hand Swedge (Knife edge and $\frac{3}{4}$ "). Each.....	1.85
BR-35-2 Hand Swedge ($\frac{1}{2}$ " and $\frac{1}{2}$ "). Each.....	1.85
BR-35-3 Anvil (Knife edge and $\frac{3}{4}$ "). Each.....	.95
BR-35-4 Anvil ($\frac{1}{2}$ " and $\frac{1}{2}$ "). Each.....	.95



Clutch Aligning Tool



FOR lining up the driven disc before bolting the compressor to the fly-wheel. The expanding Pilot is slipped into the transmission shaft bearing and tightened by means of an adjusting screw. The adjustable tapered sleeve centers the driven disc and holds it securely in place while the compressor is being bolted in place. This tool is guaranteed against defective material or workmanship but not against wear.

A-37-B Set. All units illustrated except A-37-6 Sleeve and A-37-17 Pilot. Services passenger

cars and several light trucks. In 170-B Metal Box..... **\$9.65**
A-37-C Set. All units illustrated with 170-B Metal Box. Services all cars and trucks..... **\$12.05**

Pilots and Additional Parts

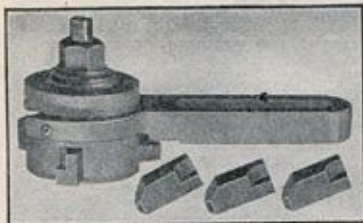
A-37-2 Small tapered sleeve. Each.....	\$1.75
A-37-6 Large tapered sleeve. Each.....	2.00
A-37-23-A Inner sleeve (shaft $\frac{3}{16}$ " dia.). Each.....	1.70
A-37-22 Sleeve adaptor (for Hudson, Terraplane, Nash "400", LaFayette, Plymouth, Dodge). Each.....	\$0.20
A-37-19 Pilot assembly for Hudson-Terraplane. Each.....	.75
170-B Metal Box. Each.....	.75

Pilots

A-37-11.....	.590"	\$0.30	A-37-10.....	.750"	\$0.30
A-37-9.....	.625"	.30	A-37-13.....	.786"	.30
A-37-12.....	.668"	.30	A-37-14.....	.984"	.35
A-37-18.....	.718"	.35	A-37-17.....	1.181"	.40

Snap-On—Blue-Point—A Regular Periodic Service

Cylinder Ridge Removers



AN expanding type tool for removing the ridge at the top of cylinder wall. Three expanding cutters act as self-centering agents and are so shaped that the top portion only of each blade acts as a cutter and the bottom section as a guide to prevent chattering or removing too much metal. Two sets of cutters are provided, the smaller ones having a range from $2\frac{1}{8}$ " to $3\frac{1}{2}$ " and the larger blades from $3\frac{1}{2}$ " to $4\frac{1}{4}$ ".

This tool will accurately remove

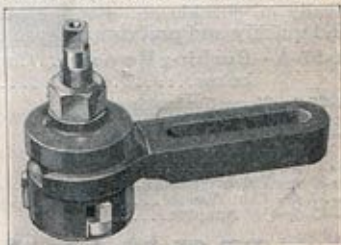
ridges worn deeper on one side than on the other unless the wall taper exceeds .005 which sometimes occurs in cylinders that have been reamed or reground. The clamp is bolted onto the cylinder block opposite the most pronounced part of the ridge. It covers a full range in one tool and does a better job quicker and easier.

WR-15 Cylinder Ridge Remover. Each.....	\$7.95
WR-15-4—Set of 3 small cutters.....	2.00
WR-15-3—Set of 3 large cutters.....	2.00

Special Tool for 60 H.P. V-8 Ford and Other Small Cars

HAS an expansion range from $2\frac{3}{8}$ " to $3\frac{1}{4}$ "... handles V-8 60 H.P. and other small motors including the foreign cars with small bore cylinders.

WR-12 Ridge Remover. Each.....	\$5.95
WR-12-3 Set of 3 Cutters..	2.00

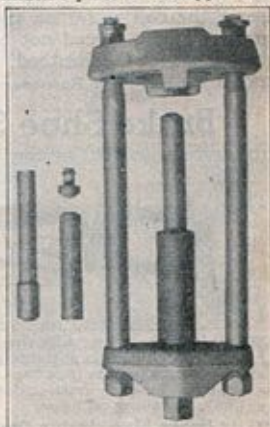


King Pin Remover For Ford—Chevy—Plymouth

BUILT with plenty of power and strength to handle this tough pulling job. To remove the king pin, the front wheel is removed and the two upright rods are slipped over the axle and steering knuckle plate. The upper end piece is shaped to fit over the head of the king pin and the two feet brace solidly against the upper part of the knuckle. The upper end piece is designed to swivel enough to fit snugly on all models.

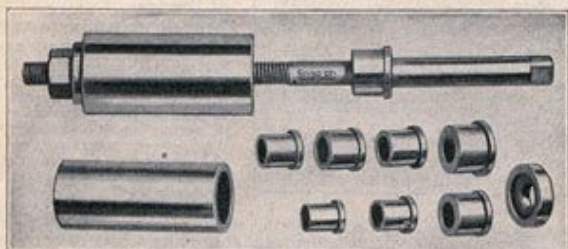
Various pilots adapt the tool to Ford, Chevrolet, and Plymouth models. We have thoroughly tested this tool in actual use in service garages and we recommend it as the only really satisfactory tool on the market for this tough job. Directions for using are included with each tool.

CG-21—King Pin Remover. Each	\$7.50
CG-21-A—Center Screw.....	1.20
CG-21-B—Threaded End Piece.....	1.00
CG-21-C—Upper End Piece.....	1.10
CG-21-D—Side Posts (pair).....	1.50
CG-21-E— $\frac{3}{4}$ " Long Pilot.....	.50
CG-21-F— $\frac{3}{4}$ " Short Pilot.....	.40
CG-21-G— $\frac{5}{8}$ " Pilot.....	.60
CG-21-H—Pilot Bearing.....	.50
CG-21-J—Nuts (upper) pair.....	.40
CG-21-K—Nuts (lower) pair.....	.30



Selected Items That Will Save You Money

Bronze or Steel Bushing Remover

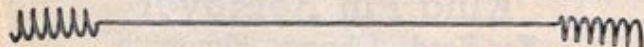


HERE is the cure for those tight bushings . . . this tool will remove or insert all bronze or steel bushings with inside diameters of the sizes listed below and all outside diameters up to $1\frac{1}{4}$ " and not exceeding 3" in length. This range covers practically all shackle and steering bushings. It does the job easily and quickly and prevents damage to new bushings.

A-57-A—Bushing Remover. Complete with all parts listed below. \$5.55

A-57-1—Sleeve (for bushings up to 1" dia.)	\$0.85	A-57-6— $1\frac{1}{8}$ " Adaptor	\$0.25
A-57-9—Sleeve (for bushings 1" to $1\frac{1}{4}$ " dia.)	1.15	A-57-7— $\frac{5}{8}$ " Adaptor . . . . .	.20
A-57-2—Screw	1.05	A-57-8— $\frac{3}{8}$ " Adaptor . . . . .	.20
A-57-3—Thick Washer . . . . .	.25	A-57-10— $\frac{37}{64}$ " Adaptor . . . . .	.25
A-57-4—Thin Washer . . . . .	.25	A-57-11— $\frac{7}{8}$ " Adaptor . . . . .	.25
A-57-5— $\frac{3}{4}$ " Adaptor . . . . .	.25	A-57-12— $1\frac{1}{4}$ " Adaptor . . . . .	.30
		A-57-13—1" Adaptor . . . . .	.30

BR-95 Broken Axle Remover

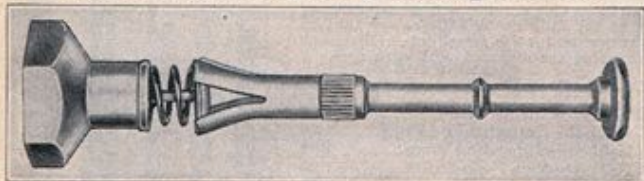


REACHES into the housing and pulls out the broken axle, even those broken in the spline. Two tapered coils, one taking 1" to $1\frac{1}{4}$ ", the other $1\frac{1}{4}$ " to $1\frac{5}{8}$ ", 32" long.

Force the coil as far on the shaft as possible by rotating it . . . grease retainers need not be moved . . . stands from 200 to 250 lbs. pull. Not Guaranteed.

BR-95 Broken Axle Remover—Each \$0.60

Brake Shoe Spring Compressor

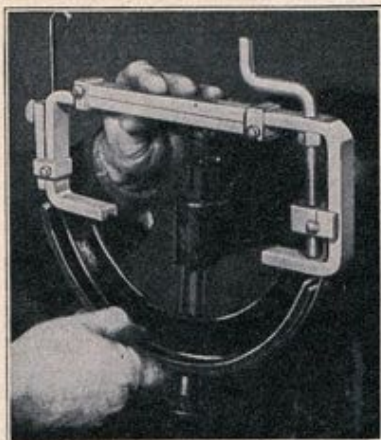


YOU can always buy adhesive tape for those skinned knuckles . . . but why skin em? There is absolutely no danger of that when you use this little tool for removing the lock caps on brake shoe springs. You simply place the prongs over the cap—push it down—give it a twist—and off it comes. It's as simple as falling off a log.

CG-14 Brake Shoe Spring Compressor. Each \$0.50

Blue-Point Tools Are Designed and Built Correctly

Brake Lining Clamp



THIS tool is applicable to any automobile brake shoe including steeldraulic . . . is easy to operate and holds the lining tight and smooth on the shoe while you drill, countersink, and rivet it on. Most chatters and squeaks as well as spongy brakes are caused by bad fitting of the brake lining . . . and you cannot do a good job without a tool that clamps the lining to shoe and holds it in place until the job is done. Save time and make more money for your shop with this excellent tool.

- | | |
|--|--------|
| BL-30—Blue Point Brake Lining Clamp, complete with long and short bands | \$6.95 |
| BL-27—Extra Band (Short—for all passenger car jobs, except one piece shoes). Each | .25 |
| BL-36—Extra Band (Long—for one piece or steeldraulic and truck shoes). Each | .25 |
| BL-31—Perch—Necessary on some types of riveting machines, needed on Ford brake shoes on models prior to 1935. Each | .50 |

Hydraulic Brake Clamp

Holds the brake cylinder in closed position to prevent bleeding when shoes are removed. Simply press spring clip to open or close, handy—convenient and sure. You'll find it a great time saver.



- | | |
|--|--------|
| BL-40—Hydraulic Brake Clamp. Set of four | \$0.95 |
|--|--------|

Brake Pedal Jack

Holds brake pedal in position while brakes are being adjusted. The round base is placed against the heel board and the notched end against the brake pedal. Handle has ratchet action for working in close quarters and tool can be locked in any position. Can be used to hold oil pan in position while bolts are replaced. Min., Overall length 15 $\frac{3}{4}$ " max., extension overall 25".



Holds brake pedal in position while brakes are being adjusted. The round base is placed against the heel board and the notched end against the brake pedal. Handle has ratchet action for working in close quarters and tool can be locked in any position. Can be used to hold oil pan in position while bolts are replaced. Min., Overall length 15 $\frac{3}{4}$ " max., extension overall 25".

- | | |
|---------------------------------------|--------|
| BP-1—Brake Pedal Jack. Each | \$2.50 |
|---------------------------------------|--------|

Be Equipped With the Best—Buy Blue-Point

Screw and Pipe Extractors

NEW, efficient tools for removing broken threaded ends of screws, studs, pipe, pipe plugs, fittings, etc. These new tools are not tapered but are straight from end to end . . . when driven into a drilled hole in the broken stud, they grip without reaming or slipping, and, furthermore, will not expand or distort sidewalls of holes no matter how thin or how far the tool is driven in. Tightly embedded broken threaded ends can now be drilled out to thin walled shells, safely seized with one of these tools and easily turned out. This is the only basically correct method of doing the job . . . other types of extractors being tapered expand the broken steel making it bind tighter than before, and sometimes damaging the part in which it is embedded.



3-Steps in Extracting

- 1.** THE drill guides provide means for centering the drill . . . there is always room through holes above broken ends for insertion of the proper guide and extractor.
- 2.** Drill is centered through the drill guide and hole is drilled into broken end.
- 3.** Drill and drill guide are removed and extractor driven into the drill hole and the broken end quickly turned out.

No. 1020 Standard Set

Complete in box as illustrated. Contains one each of all the parts listed below and the special handle. Maximum depth extractions handled is 1" \$6.50

Extractors

No.	Each	Screw Diam.	Use Drill	Flute Diam. O. D.	Length O. A.
1	\$0.40	1/4"	1/8"	.139	2 1/16"
2	.40	5/16"	3/16"	.205	2 3/4"
3	.45	3/8"	1/4"	.272	3 1/16"
4	.50	7/8"	1/2"	.338	3 3/16"
5	.60	1 1/2"	1 1/2"	.374	3 3/4"

Special Drills

No.	Each	Diam.	Length Overall	Type Shank
1	\$0.20	1/8"	2 1/2"	S. S.
2	.20	3/16"	3"	S. S.
3	.30	1/4"	3 1/2"	S. S.
4	.40	5/16"	4"	S. S.
5	.50	1 1/2"	4 1/2"	S. S.

Drill Guides

Used for centering drills at a depth not exceeding one inch.

No.	Each	O. D. Diam.	I. D. Diam.	Overall Length	Use Drill
921	\$0.20	5/32"	1/8"	1 1/2"	1/8"
1021	.20	3/16"	3/16"	1 1/2"	3/16"
1121	.20	11/32"	1/2"	1 1/2"	1/2"
1221	.20	3/8"	1/2"	1 1/2"	1/2"
1321	.20	15/32"	3/4"	1 1/2"	3/4"
1421	.20	7/8"	3/4"	1 1/2"	3/4"
1521	.20	15/16"	7/8"	1 1/2"	7/8"
1621	.20	1 1/16"	1"	1 1/2"	1"
1721	.20	1 1/8"	1 1/8"	1 1/2"	1 1/8"
1821	.20	5/8"	1 1/4"	1 1/2"	1 1/4"

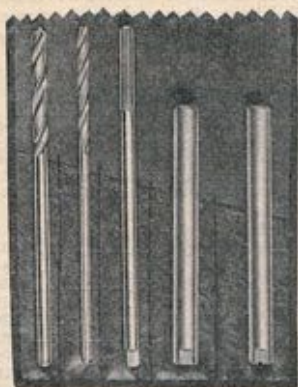
No. 10 Extractor Wrench \$0.30
 No. 1020-B Metal Box for above set 1.20



Good Tool Equipment Makes Any Job an Easier Job

Extra-Deep Screw Extractor Set

For $\frac{7}{16}$ " Screws, Etc.
Set No. 1205



ESPECIALLY valuable for removing broken cylinder head studs without removing the cylinder head from the block. This one set will handle practically all cylinder head jobs, and all broken $\frac{7}{16}$ " screws, studs, pipe, etc., at any depth not exceeding $5\frac{1}{2}$ ". Complete with one extractor for $\frac{7}{16}$ " studs, etc., one $\frac{1}{4}$ " centering drill, one $\frac{5}{16}$ " extractor drill, one $\frac{15}{32}$ " outside diameter drill guide and one $\frac{1}{2}$ " outside diameter drill guide. Use the centering drill and drill guide to correctly center the hole, enlarge it with the extractor drill

and then drive in the extractor and turn out the broken stud.

No. 1205—Extractor Set. Complete in Kit Bag. \$4.70

First Aid in Emergencies

GAS POISONING—Fresh air, smelling salts, artificial respiration, stimulants, rub limbs briskly—**SEND FOR DOCTOR.**

ELECTRIC SHOCK—Turn off power if possible, if not, cover hands with rubber gloves, newspapers or cloth, stand on dry board and lift wire away with dry wood and pull victim away. Use artificial respiration, ammonia inhalations, and give stimulant after victim regains consciousness.

BURNS—**Acid**—**Gasoline**—**Grease**—Flush burn with boric acid or milk of magnesia—dress with pure vaseline, olive oil or castor oil.

Carbolic Acid—Wash continuously with water and cover lightly with surgical gauze.

Electric—Bathe part with boric acid solution or witch hazel, follow with dry gauze and vaseline.

Fire—If burnt area is large, clean with ether: then spray with warm sterile 2 to 5% solution of freshly prepared tannic acid—dry in hot air. Repeat five to ten times. No dressing is applied. Ordinary atomizer can be used as sprayer.

CUTS—Use Iodine or Mercurochrome. Bandage loosely to keep out dirt and germs.

TOURNIQUET—Fasten handkerchief or other cloth around limb above the wound—insert strong stick or similar object between cloth and limb and twist until blood ceases to flow. **Never** apply for more than 20 minutes without loosening.

Work Safely With Snap-on—Blue-Point Tools

Blue-Point High Speed Drills

THESE drills are not single purpose drills for special work but are constructed so as to show the best all-round performance in all classes of work. They are, therefore, ideal for garages, small machine shops, jobbing shops, etc.



All Blue-Point drills are inspected for hardness immediately after heat treatment and also after the finishing operation. They must show cutting ability as well as the ability to remove chips in deep hole drilling. An important feature is the finish of the flutes, this finish being very smooth which materially helps in removing chips. Naturally, we cannot guarantee drills against breakage or wear.

Size	Price	Size	Price	Size	Price
1/16"	\$0.29	7/32"	\$0.55	3/8"	\$1.32
1/8"	.30	15/64"	.60	25/64"	1.44
3/16"	.31	1/4"	.65	11/32"	1.56
1/4"	.33	9/16"	.72	27/32"	1.68
5/16"	.35	5/8"	.79	1 1/8"	1.80
3/4"	.37	11/8"	.86	1 1/4"	1.92
7/8"	.40	1 1/16"	.94	1 3/8"	2.04
1 1/8"	.43	1 1/4"	1.03	1 5/8"	2.18
1 1/4"	.47	1 3/8"	1.13	2"	2.33
1 3/8"	.50	1 7/8"	1.22		

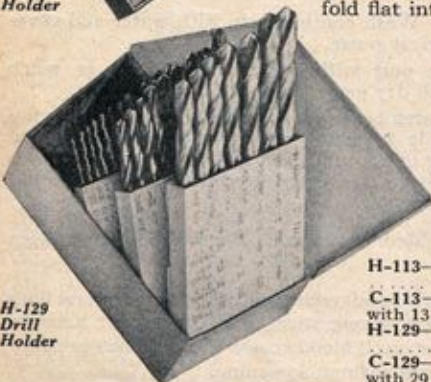
Tap Drills

These drills are needed for machine screw taps and are now carried in our standard stock.

No.	For Tap	Price	No.	For Tap	Price
44	4-36	\$0.25	16	12-24	\$0.45
35	6-32	.30	7	U.S.S. (N.C.)	
29	8-32	.34		1/4"-20	.52
24	10-24	.39	3	S.A.E. (N.C.)	
20	10-32	.42		1/4"-20	.59



H-113
Drill
Holder



H-129
Drill
Holder

Drill Holders and Sets

WE believe these combination drill holders and gauges to be the most convenient drill cases ever designed. The H-113 Holder accommodates 13 drill sizes, 1/16" to 1/4" inclusive, and the H-129 has space for 29 drills, sizes 1/16" to 1/2" inclusive, and makes it extremely easy to locate any particular sized drill. The hinged holders fold flat into the container which can be locked in your tool chest... it takes up very little room and protects your drills from damage and loss. Each drill compartment is marked and the holder is in reality a convenient drill gauge.

H-113—Drill Holder only. Each	\$1.10
C-113—Drill Holder, complete with 13 drills, 1/16" to 1/4"...	\$6.65
H-129—Drill Holder only. Each	\$3.00
C-129—Drill Holder complete with 29 drills, 1/16" to 1/2"...	\$31.50

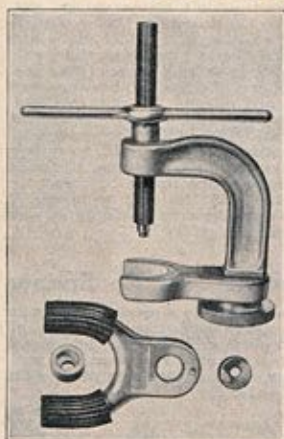
Ideal for General All Round Work

THE VERY LATEST IN TOOL EQUIPMENT

This Section Consists of All New Tools
Added to the Snap-on—Blue-Point Line Since
the Original Printing of Catalog "M" Was
Issued in June, 1937

Universal Steering Wheel Puller

Now! One Tool Pulls Any Steering Wheel



*Protects All Parts.
Does The Job Easier.
Economical To Own.*

ANY steering wheel—on any car, any model—is removed quickly and easily with the new Snap-on Steering Wheel Puller. No more need for block and hammer or special pullers for different cars ... it's like having a complete assortment of special tools all rolled into one—and at a fraction of the cost.

Smooth, powerful pressure is placed at exactly the right place on any wheel by using the proper interchangeable jaw and adaptor bushing. Inexpensive adaptor bushings will be made available when and if new steering wheel design demands it.



On Dodge cars the large adaptor rests on top of steering wheel nut and the small, brass-lined fork used.



On 1937 Chevy the screw rests directly on the shaft inside the small fork is used.



The wide, rubber covered hub fork is used on 1937 Ford, while the small adaptor protects the end of column.

Number	Description	Price
CG-60-1	Frame.....	\$1.75
CG-60-2	Frame Nut.....	.90
CG-60-3	Wide Fork.....	1.00
CG-60-4	Narrow Fork.....	1.30
CG-60-5	Pressure Screw...	1.00
CG-60-10	Screw Key.....	.20

Number	Description	Price
CG-60-11	Large Adaptor...	\$0.50
CG-60-12	Small Adaptor...	.15
CG-60-13	Sleeve.....	.90
CG-60-14	Sleeve Handle...	.90
CG-60-15	Bushing.....	.30
CG-60-16	Bushing Screw...	.10

CG-60 Steering Wheel Puller Complete.....\$9.00

Pull Steering Wheels the Snap-on Way . . . It's Easier

Snap-on

MEASURED TENSIONING

WITH THE SNAP-ON TORQOMETER

MODERN Motor design—thinner cylinder walls, lighter blocks, higher compression, faster operation—has created a necessity for a tension measuring gauge. Use the Snap-on Torqometer to tighten all cylinder stud nuts, spark plugs, wheel hub bolts, main bearings, etc., for better car performance.

TELLS THE TENSION AS YOU TIGHTEN THE NUT

When you **KNOW** you've done the job right—and it still fails to perform—don't blame valves, gaskets, piston rings, etc. Blame **distortion**—distortion of cylinder block and valve seats! Blame guesswork tightening of cylinder studs—which causes leaky gaskets, ring failure, binding of bearings and sticking valves and pistons. For peak performance—for factory-pressure every time—use Snap-on's new "TORQOMETER" to replace all heads. Built on an entirely new principle, no springs that might possibly give the wrong reading. Easier to read too—the dial moves, not the needle . . . and the pressure shows through top and two side windows. It cannot fail you—tells the tension as you tighten the stud—safeguards your work on other parts—sends out every job "sealed to satisfy."

Built on an Entirely New Principle . . . No Springs

The Torqometer is not a wrench . . . it is more truly a precision gauge for accurate and uniform nut tightening . . . properly used it will eliminate all faulty conditions caused by distortion. The Torqometer, with a pre-determined leverage, measures the deflection of a solid steel bar at any pressure and indicates this deflection on a dial, the reading remaining constant regardless of the position of the operator's hands on the tool handle.

TQ-11—Torqometer. Each . . . \$17.50

Write For Special Torqometer Folder



Left: As used with Nut Spinner Handle on 1938 Lincoln-Zephyr and other V-8 motors.

Center: In use with special adaptor on 1938 Chevrolet.

Right: Used with Extension Bar on 1936 Oldsmobile.

Chevrolet Torqometer Adaptor

S-9513—Adaptor boxocket that reaches around the rocker arms for easy tightening and testing of Chevy cylinder stud nuts. Can also be used with any standard $\frac{1}{2}$ " drive wrench handle. Each . . . \$1.95

Note: Adaptors for Nash, Buick, etc., are also available.



Send Out Every Job "Sealed to Satisfy"

Ferret Speedster Ratchet

SIMILAR in operation to a carpenter's ratcheting bit brace, this tool will be extremely useful for fast work in very close places or where a ratchet action is needed for starting or tightening, and a speeder motion for running nuts on or off.

Stock No.	Square Drive	Sweep Radius	Overall Length	Price
RS-4	$\frac{5}{8}$ "	3 $\frac{1}{4}$ "	8 $\frac{15}{16}$ "	\$3.45



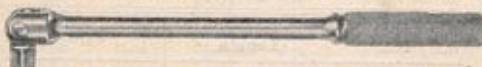
*RS-4
Ratchet
Speeder*

3 Inch Master Extension Bar

Stock No.	Square Drive	Shank Length	Price
S-3	$\frac{1}{2}$ "	3"	\$0.75



12 Inch Master Nut Spinner



*See page
24 for
Description*

Stock No.	Square Drive	Head Diameter	Handle Diameter	Overall Length	Price
11	$\frac{1}{2}$ "	1 $\frac{1}{8}$ "	$\frac{9}{16}$ "	12"	\$2.15

Midget Screw Drivers for Phillips Head Screws

Stock No.	Phillips No.	Square Drive	Overall Length	Price
M-28	#1	$\frac{9}{16}$ "	2 $\frac{3}{8}$ "	\$0.70
M-29	#2	$\frac{7}{16}$ "	2 $\frac{3}{8}$ "	.70



Not Guaranteed

Midget Screw Driver for Butterfly Screws

M-27— $\frac{9}{16}$ " Square Drive Adaptor for the so-called "butterfly" or "figure-eight" screw. Short enough to work in cramped quarters. Each, not guaranteed. \$0.25



Midget Stromberg Carburetor Socket

A-95— $\frac{11}{16}$ " Extra Deep Hexagon Socket, designed expressly to turn the check valve in certain Stromberg carburetors. This tool is not a standard type broaching and is not intended for general work. Each. \$0.50



Ferret Carburetor Screw Driver Tools

Two specially designed screw driver sockets for servicing Stromberg carburetors.

MC-37—for "D" Type Carburetor Piston Sleeve. Each. \$0.65

MC-38—for Main Discharge Jet. Each. \$0.60



MC-37

MC-38

Make Snap-on Your Tool Headquarters

Jumbo Ratchet Wrench

With Detachable Handle

(1½" Square Drive)



THIS is the largest and most powerful Ratchet Wrench that we have ever built . . . every possible means at our disposal has been called upon to make this tool the finest in its particular field.



Built to handle the toughest kind of nut turning . . . with a 42" leverage that will break loose any nut or bolt in its socket range and a smooth working ratchet action for fast, easy operation. Convenient lever on ratchet face instantly reverses action while on the job. Takes complete range of sockets 1½" to 4½" Hex and 1½" to 3½" Square. *Speeds up your heavy construction jobs with safety.*

Complete Tool

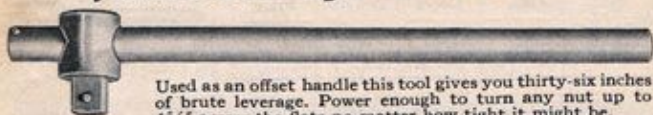
Stock No.	Overall Length	Price
No. 78	42"	\$23.25

Head Only

Handle Only

Stock No.	Square Drive	Head Diameter	Head thickness	Price	Stock No.	Handle Diameter	Handle Length	Price
78-Y	1½"	4"	1½"	\$18.25	55-B	1½"	36"	\$5.00

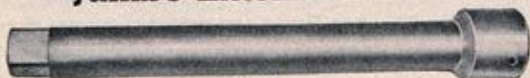
Jumbo Sliding Bar Handle



Used as an offset handle this tool gives you thirty-six inches of brute leverage. Power enough to turn any nut up to 4½" across the flats no matter how tight it might be.

Stock No.	Square Drive	Head Depth	Handle Diameter	Overall Length	Price
55	1½"	2½"	1½"	36"	\$9.50

Jumbo Extension Bars



Reach down with an extension bar into recesses and other close places to get those inaccessible nuts. Converts your sliding bar into a tee handle. Built to take the heaviest work.

Stock No.	Square Drive	Shank Diameter	Shank Length	Price
105	1½"	1½"	10"	\$10.90
205	1½"	1½"	20"	13.75

As Powerful as a Prizefighter's Fist

Jumbo Single Hex. Socket Wrenches

(1½" Square Drive)

DESIGNED for use with the handles shown on opposite page. A safety-first wrench with power aplenty to take heavy construction work.



Stock No.	Wrench Size Nominal	Price	Outside Diameter		Overall Length	BOLT SIZE	
			Handle End	Socket End		American Standard	U.S. Standard
525	1 1/8"	\$4.50	3"	3"	3"	1 1/8"	1"
545	1 1/4"	4.60	3"	3"	3"	1 1/4"	1"
565	1 3/8"	4.75	3"	3"	3 1/8"	1 3/8"	1 1/8"
585	1 1/2"	4.80	3 1/4"	3 1/4"	3 1/2"	1 1/2"	1 1/4"
605	1 5/8"	5.15	3 1/2"	3 1/2"	3 3/8"	1 5/8"	1 3/8"
625	1 3/4"	5.40	3 3/4"	3 3/4"	3 1/2"	1 3/4"	1 3/8"
645	2"	5.40	3 1/4"	3 1/4"	3 3/8"	2"	1 3/4"
665	2 1/16"	6.60	3 1/4"	3 1/4"	3 3/8"	2 1/16"	1 3/4"
685	2 1/8"	6.90	3 1/4"	3 1/4"	3 3/8"	2 1/8"	1 3/4"
705	2 1/4"	7.25	3 1/4"	3 1/4"	3 3/8"	2 1/4"	1 3/4"
725	2 3/8"	7.90	3 1/4"	3 1/4"	3 3/8"	2 3/8"	1 3/4"
745	2 1/2"	8.20	3 1/4"	3 1/4"	3 3/8"	2 1/2"	1 3/4"
765	2 5/8"	9.35	3 1/4"	3 1/4"	4"	2 5/8"	1 3/2"
785	2 3/4"	11.55	3 1/4"	3 1/4"	4"	2 3/4"	1 3/2"
805	2 7/8"	12.65	3 1/4"	3 1/4"	4"	2 7/8"	1 3/2"
825	3"	13.75	3 1/4"	4"	4 1/8"	3"	1 3/2"
845	3 1/8"	15.15	3 1/4"	4"	4 1/2"	3 1/8"	1 3/2"
865	3 1/4"	16.40	3 1/4"	4 1/8"	4 1/2"	3 1/4"	1 3/2"
885	3 1/2"	17.45	3 1/4"	4 1/8"	4 1/2"	3 1/2"	1 3/2"
905	3 3/8"	18.50	3 1/4"	4 1/8"	4 1/2"	3 3/8"	1 3/2"
925	3 1/2"	19.55	3 1/4"	4 1/8"	4 1/2"	3 1/2"	1 3/2"
945	3 1/2"	20.85	3 1/4"	4 1/8"	4 1/2"	3 1/2"	1 3/2"
965	3"	22.70	3 1/4"	4 1/8"	4 1/2"	2"	2"
1005	3 1/4"	23.25	3 1/4"	4 1/8"	4 1/2"	3 1/4"	2"
1045	3 1/2"	24.80	3 1/4"	4 1/8"	4 1/2"	3 1/2"	2 1/4"
1085	3 3/8"	25.30	3 1/4"	5 1/8"	4 1/2"	3 3/8"	2 1/4"
1125	3 1/2"	26.40	3 1/4"	5 1/8"	4 1/2"	3 1/2"	2 1/4"
1205	3 3/4"	29.15	3 1/4"	5 3/8"	4 1/2"	3 3/4"	2 1/4"
1245	3 7/8"	29.45	3 1/4"	5 3/8"	5"	3 7/8"	2 1/4"
1325	4 1/8"	30.80	3 1/4"	6"	5 1/4"	4 1/8"	2 1/4"
1365	4 1/4"	32.45	3 1/4"	6"	5 1/4"	4 1/4"	2 1/4"
1445	4 1/2"	36.30	3 1/4"	6 3/8"	5 3/8"	4 1/2"	3"
1485	4 3/4"	37.40	3 1/4"	6 1/2"	5 3/8"	4 3/4"	3"

Jumbo Double Square Sockets

Stock No.	Wrench Size Nominal	Price	Outside Diameter		Overall Length	BOLT SIZE SQUARE NUTS	
			Handle End	Socket End		U.S.S.	Standard
846	1 7/16"	\$4.90	3"	3"	3 1/8"	7/8"	1"
848	1 1/2"	5.30	3 1/8"	3 1/8"	3 1/8"	1 1/2"	1"
850	1 5/8"	6.10	3 1/8"	3 1/8"	3 1/8"	1 5/8"	1 1/8"
852	1 3/4"	6.75	3 1/8"	3 3/8"	3 1/8"	1 3/4"	1 1/8"
854	1 11/16"	8.00	3 1/8"	3 3/8"	3 1/8"	1 11/16"	1 1/8"
856	1 3/4"	9.00	3 1/8"	3 3/8"	3 1/8"	1 3/4"	1 1/8"
858	1 15/16"	9.80	3 1/8"	3 3/8"	3 1/8"	1 15/16"	1 1/8"
860	1 7/8"	10.25	3 1/8"	3 3/8"	3 1/8"	1 7/8"	1 1/8"
862	1 15/16"	10.50	3 1/8"	3 3/8"	3 1/8"	1 15/16"	1 1/8"
864	2"	10.75	3 1/8"	3 3/8"	3 1/8"	2"	1 1/8"
866	2 1/16"	11.80	3 1/8"	4"	3 3/8"	2 1/16"	1 1/8"
868	2 1/8"	12.60	3 1/8"	4"	3 3/8"	2 1/8"	1 1/8"
870	2 1/4"	13.75	3 1/8"	4 1/8"	3 3/8"	2 1/4"	1 1/8"
872	2 3/8"	14.00	3 1/8"	4 1/8"	3 3/8"	2 3/8"	1 1/8"
874	2 1/2"	14.25	3 1/8"	4 1/8"	3 3/8"	2 1/2"	1 1/8"
876	2 5/8"	14.50	3 1/8"	4 1/8"	4"	2 5/8"	1 1/8"
878	2 3/4"	15.25	3 1/8"	4 1/8"	4"	2 3/4"	1 1/8"
882	2 7/8"	16.25	3 1/8"	4 1/8"	4 1/8"	2 7/8"	1 1/8"
884	2 15/16"	17.00	3 1/8"	4 1/8"	4 1/8"	2 15/16"	1 1/8"
888	3"	20.80	3 1/8"	5 1/8"	4 1/8"	3"	1 1/8"
890	2 11/16"	22.50	3 1/8"	5 1/8"	4 1/8"	2 11/16"	1 1/8"
894	2 15/16"	24.75	3 1/8"	5 3/8"	4 1/8"	2 15/16"	1 1/8"
8100	3 1/8"	27.50	3 1/8"	5 3/8"	4 1/8"	3 1/8"	1 1/8"
8112	3 1/4"	32.00	3 1/8"	6 3/8"	5 3/8"	3 1/4"	1 1/8"

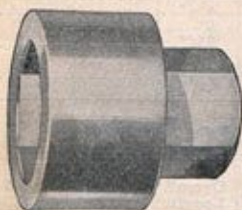
Built for Power With Unit Flexibility

Sledge-Hammer Type Boxocket Wrenches



POWERFULLY built tools designed for such tough nut turning jobs as those in large power plants, bridge construction jobs, etc. The anvil end takes the blows from a sledge hammer and draws the toughest bolt tight.

Part No.	Wrench Size		Wrench Head		Length	Price
	Nominal	Actual	Thickness	Diameter		
X-146	1 $\frac{7}{16}$ "	1.463	1 $\frac{1}{4}$ "	2 $\frac{37}{64}$ "	15"	\$12.50
X-152	1 $\frac{5}{8}$ "	1.657	1 $\frac{3}{8}$ "	2 $\frac{25}{32}$ "	15 $\frac{3}{16}$ "	13.00
X-158	1 $\frac{13}{16}$ "	1.850	1 $\frac{1}{2}$ "	3 $\frac{1}{32}$ "	15 $\frac{1}{2}$ "	14.50
X-164	2"	2.044	1 $\frac{5}{8}$ "	3 $\frac{1}{4}$ "	15 $\frac{11}{16}$ "	15.75
X-170	2 $\frac{3}{16}$ "	2.231	1 $\frac{3}{4}$ "	3 $\frac{1}{2}$ "	15 $\frac{3}{4}$ "	16.50
X-176	2 $\frac{3}{8}$ "	2.419	1 $\frac{7}{8}$ "	3 $\frac{23}{32}$ "	15 $\frac{15}{16}$ "	17.50
X-182	2 $\frac{9}{16}$ "	2.612	2"	4 $\frac{3}{64}$ "	16 $\frac{1}{2}$ "	19.00
X-188	2 $\frac{3}{4}$ "	2.800	2 $\frac{1}{4}$ "	4 $\frac{17}{64}$ "	16 $\frac{11}{16}$ "	21.00
X-194	2 $\frac{15}{16}$ "	2.993	2 $\frac{3}{8}$ "	4 $\frac{37}{64}$ "	17"	22.75
X-1100	3 $\frac{1}{8}$ "	3.181	2 $\frac{1}{2}$ "	4 $\frac{51}{64}$ "	17 $\frac{3}{8}$ "	25.50
X-1112	3 $\frac{1}{2}$ "	3.556	2 $\frac{3}{4}$ "	5 $\frac{29}{64}$ "	20"	28.50
X-1124	3 $\frac{7}{8}$ "	3.937	3"	5 $\frac{57}{64}$ "	20 $\frac{3}{8}$ "	34.50
X-1136	4 $\frac{1}{4}$ "	4.312	3 $\frac{1}{4}$ "	6 $\frac{11}{32}$ "	23 $\frac{1}{2}$ "	37.50
X-1148	4 $\frac{5}{8}$ "	4.687	3 $\frac{1}{2}$ "	6 $\frac{23}{32}$ "	23 $\frac{11}{16}$ "	42.00



Sockets for Use with the Above Wrenches

Specially designed socket wrenches for use with the sledge type boxockets shown above. The hexagon shaft and hexagon opening are the same size on each socket and the shaft fits the opening of the corresponding size boxocket. All sizes are broached single hexagon.

Part No.	Wrench Size		Hexagon Drive End	Outside Diameter	Overall Length	Price
	Nominal	Actual				
H-460	1 $\frac{7}{16}$ "	1.463	1.437	2 $\frac{7}{16}$ "	3"	\$6.00
H-520	1 $\frac{5}{8}$ "	1.657	1.625	2 $\frac{5}{8}$ "	3 $\frac{1}{4}$ "	6.25
H-580	1 $\frac{13}{16}$ "	1.850	1.812	2 $\frac{13}{16}$ "	3 $\frac{1}{2}$ "	6.75
H-640	2"	2.044	2.000	3 $\frac{1}{16}$ "	3 $\frac{3}{4}$ "	7.25
H-700	2 $\frac{3}{16}$ "	2.231	2.187	3 $\frac{1}{4}$ "	4"	8.50
H-760	2 $\frac{3}{8}$ "	2.419	2.375	3 $\frac{1}{2}$ "	4 $\frac{1}{4}$ "	10.75
H-820	2 $\frac{9}{16}$ "	2.612	2.562	3 $\frac{3}{4}$ "	4 $\frac{1}{2}$ "	14.50
H-880	2 $\frac{3}{4}$ "	2.800	2.750	4 $\frac{1}{8}$ "	5"	17.00
H-940	2 $\frac{15}{16}$ "	2.993	2.937	4 $\frac{5}{16}$ "	5 $\frac{1}{4}$ "	18.25
H-1000	3 $\frac{1}{8}$ "	3.181	3.125	4 $\frac{5}{8}$ "	5 $\frac{1}{2}$ "	19.25
H-1120	3 $\frac{1}{2}$ "	3.556	3.500	5 $\frac{1}{16}$ "	6"	22.50
H-1240	3 $\frac{7}{8}$ "	3.937	3.875	5 $\frac{5}{8}$ "	6 $\frac{1}{2}$ "	25.50
H-1360	4 $\frac{1}{4}$ "	4.312	4.250	6 $\frac{1}{16}$ "	7"	34.50
H-1480	4 $\frac{5}{8}$ "	4.687	4.625	6 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	42.00

Wrenches That Begin Where Others Leave Off

Engineers' Wrenches

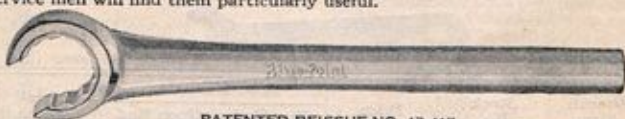


THIS type of single end wrench is preferred by many engineers, maintenance men, mechanics, etc. Drop forged to give the utmost strength and accurately milled to correct wrench size.

Wrench Size	Stock No.	Price	Head Thickness	Head Diameter	Overall Length	S.A.E.	U.S.S. Nuts
1 1/16	CE-34	\$0.70	9/16	2 17/32	10 1/2	3/4	5/8
1 1/8	CE-40	.95	11/16	3 1/2	12	7/8	3/4
1 1/4	CE-46	1.50	1 1/8	3 3/8	13 1/2	1	7/8
1 3/8	CE-52	2.05	1 1/4	3 7/8	15	1 1/8	1
1 1/2	CE-58	2.65	1 1/2	4 1/4	16 1/2	1 1/4	1 1/8
2	CE-64	3.65	1 5/8	4 5/8	18 1/4	1 3/8	1 1/4
2 1/8	CE-70	5.00	1 3/4	5 1/8	20	1 1/2	1 3/8
2 1/4	CE-76	6.25	1 7/8	5 11/16	22	1 5/8	1 1/2

Flare Nut Wrenches

A series of wide sided, thin-walled, split boxockets especially designed to operate over tubing and pipes in very close places . . . this type of tool will not damage soft brass flare nuts. Refrigeration, Air-conditioning, and Aircraft service men will find them particularly useful.



PATENTED REISSUE NO. 17,417

Wrench Size	Stock No.	Price	Head Diameter	Head Depth	Overall Length
3/8	RX-12	\$0.80	.773	8/16	6 3/8
1/2	RX-14	.85	.856	11/16	6 7/8
5/8	RX-16	.90	.939	1 1/8	6 3/4
7/8	RX-18	.95	1.032	1 1/4	6 3/4
1	RX-20	1.00	1.115	1 1/2	7 1/8
1 1/16	RX-22	1.05	1.198	1 5/8	7 1/8
1 1/8	RX-24	1.10	1.281	1 3/4	7 3/8
1 1/4	RX-26	1.20	1.364	1 7/8	7 3/8
1 1/2	RX-28	1.35	1.439	2	7 3/8
1 3/8	RX-30	1.80	1.503	2 1/8	7 3/8
1 1/2	RX-32	1.85	1.590	2 1/4	7 3/8
1 5/8	RX-34	1.95	1.671	2 1/2	7 3/8
1 3/4	RX-36	2.10	1.753	2 3/4	7 3/8
*1 7/8	RX-40	2.25	1.924	2 7/8	8
*2	RX-44	3.15	2.089	3 1/8	10
*2 1/8	RX-48	3.75	2.260	3 1/2	10 1/8
*2 1/4	RX-52	3.90	2.424	3 3/4	10 1/8

*These sizes made special to order.

Combination Wrenches

Three new sizes added to the series of Long Handle Combination Wrenches listed on Page 43 . . . very useful for work on trucks, tractors, road machinery, etc.



Size of Openings, Both Ends	Stock No.	Price	Head Diameter		Over-all Length	SAE	USS Nuts	USS Cap Sc.
			Box End	Open End				
1 1/16	OEX-34	\$2.00	1.581	2 1/8	12	3/4	5/8	.....
1 1/8	OEX-36	2.25	1.665	2 1/4	12 1/2	7/8	3/4	.....
1 1/4	OEX-40	2.50	1.830	2 1/2	13 3/8	1	7/8	1

Snap-on Makes Every Type of Wrench Equipment

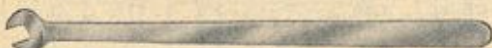
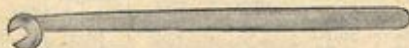
Tappet Holding Wrench



Here's that third hand you've needed for tappet adjusting work. Made in $\frac{1}{2}$ " size only to take the great majority of tappets. The curved jaws are slipped over the adjacent tappet with the $\frac{1}{2}$ " opening in position on the one which is to be held. The locking plunger holds the tool in position.

TA-16 Tappet Holding Wrench \$0.65

Special Tappet Wrenches



LT-17— $\frac{17}{32}$ " opening, 15" long Tappet Wrench for Willys, Int. Truck, etc. Each.....\$0.85

CT-14— $\frac{5}{16}$ " opening, 12" long Tappet Wrench for late Chrysler and DeSoto cars. Each.....\$0.85

Midget Combination Wrenches



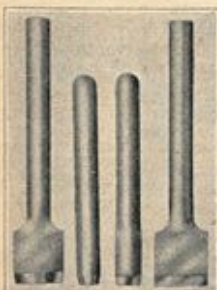
Wrench Size	Stock No.	Price	Head Diameter		Overall Length
			Box End	Open End	
$\frac{1}{4}$	C-16	\$0.30	$\frac{13}{32}$	$\frac{17}{32}$	$3\frac{1}{8}$
$\frac{5}{16}$	C-18	.30	$\frac{15}{32}$	$\frac{19}{32}$	$3\frac{1}{16}$
$\frac{3}{8}$	C-20	.30	$\frac{17}{32}$	$\frac{21}{32}$	$3\frac{1}{8}$
$\frac{11}{16}$	C-22	.30	$\frac{19}{32}$	$\frac{23}{32}$	$3\frac{1}{16}$

Heavy Duty Stud Puller

This puller works on the wedge principle and takes a positive grip which cannot be released except as the operator wishes. Two sizes of special alloy steel wedges, chapmanized to provide a tough core and extremely hard surface, are milled in two directions to assure a grip on the hardest studs.

Designed for use with a $\frac{3}{4}$ " square drive handle... accommodates studs from $\frac{3}{8}$ " to 1" diameter.

LA-55—Heavy Duty Stud Puller.....\$5.95



Gasket Cutter Set

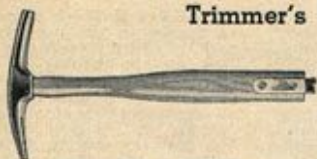
Consists of four cutting punches of various shapes and sizes. These tools will do a great many cutting operations and form many intricate patterns. They may be used to cut gaskets, floor mats, running board mats, rubber, lead, linoleum, felt fibre, and other similar materials. These cutters will be sold only in sets. Not Guaranteed.

GA-40 Cutter Set.....\$0.50

If There's a Better Tool for the Job We Have It

Body Repair Tools

Trimmer's Magnetic Hammer



No. 6020—An essential tool for all upholstery and covering work. Equipped with a nail pulling claw in the end of the handle. Head $5\frac{1}{2}$ ", Handle $10\frac{3}{4}$ ", Weight 7 oz.

Each \$2.25

Finishing Hammer

HB-253—A flat finishing $1\frac{1}{4}$ " round face on one end and a $\frac{5}{8}$ " cross pein chisel on the other. Excellent for bringing out the narrow bead surfaces. Head 5", Handle $11\frac{1}{2}$ ", Weight 11 oz.

Each \$2.00

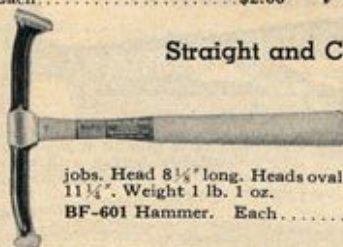


Straight and Cross Pein Hammer

Used inside roof rails, headlight shells and rims, metal tire covers, pressed out body moldings, some fenders and fender wells, etc. The straight and cross pein heads make it useful for many hard to reach

jobs. Head $8\frac{1}{4}$ " long. Heads oval and oblong with curved faces. Handle $11\frac{1}{4}$ ". Weight 1 lb. 1 oz.

BF-601 Hammer. Each \$2.15



Angle Dinging Hammer

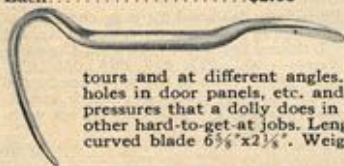
HB-252—Designed to simplify dinging from an awkward angle. Both heads are set at an angle, the round head offset to the side and the square head offset in line with the handle. Very useful for work on fenders close to body and radiator. We recommend this tool in all instances where a standard dinging hammer does not conveniently meet the job requirements.

Each \$2.00



Body Iron

BF-771—Double end spoon with long wide faces of different contours and at different angles. Constructed to work through small holes in door panels, etc. and to give the same working faces and pressures that a dolly does in open places. Handles side aprons and other hard-to-get-at jobs. Length $15\frac{3}{4}$ ", short blade $4\frac{3}{4}$ "x $1\frac{3}{8}$ ", long curved blade $6\frac{3}{4}$ "x $2\frac{3}{4}$ ". Weight 3 lb. 11 oz. Each \$2.85



Turret Top Iron

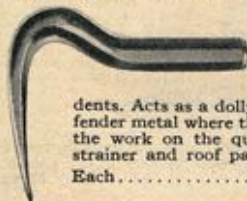
BF-707—Highly recommended for work on turret tops—to be used as a spoon or as a dolly iron. Blade is $6\frac{1}{2}$ " long and 2" wide. Weight 2 lb. 8 oz. Each \$1.65



Combination Spoon

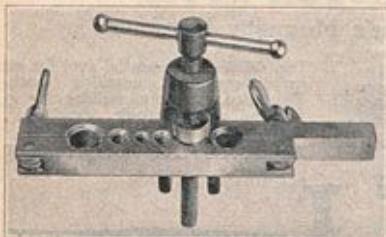
HB-350—Shaped to fit the new body contours and heavy enough to press out low spots and dents. Acts as a dolly or a spoon. Useful between fender brackets and fender metal where the use of a dolly is not feasible. Also takes most of the work on the quarter deck of turret tops, between headlining strainer and roof panel, and on windshield, body, and door panels.

Each \$2.00



For Dinging Out Dents on the Latest Models

Tube Flaring Tool



YOU do a good job every time when you use this tool . . . useful for refrigeration, air conditioning, aircraft, automotive, and many other types of service. Takes all six popular sizes of tubing $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", and $\frac{5}{8}$ ". An easy way to do a quick job. Not guaranteed. **No. 155 Tube Flaring Tool.** Each . . . \$3.50

Hand Valve Lifter

"The Little Shorty with the Big Lift."

This tool has many features to recommend it . . . short enough to get into all those tight places where other lifters fail you, and with plenty of lifting power and a wide lifting range. Screw controlled jaws expand to $2\frac{1}{8}$ " and remain parallel at all positions. "Little Shorty" will lift springs with a coil strength of up to 300 pounds, or twice the strength of any spring now in common use. Jaws are adjustable to varying spring sizes.



CF-12 Hand Valve Lifter. Each . . . \$1.85

Forming and Calking Tool



HB-395—For use primarily for calking out the top rail and drip molding beads in turret tops. Blade edge $1\frac{3}{4}$ " wide, overall length $10\frac{3}{4}$ ". Each \$1.15

Wire Spark Plug Feeler Gauge



Especially designed for easy checking of spark plug gaps . . . much better for this job than a flat blade type tool. Contains 8 sizes—.022, .025, .027, .028, .030, .032, .035, .040. Ends of the wires are turned at 90° so that electrodes which are recessed below the shell may be set without trouble.

No. 308-W Spark Plug Feeler. Each . . . \$1.00
308-WH Handle only. Each25
Extra Wires in above sizes. Each15
308-W20—.020 Feeler Wire. This size not included with 308-W Tool, but can be added if desired. Each15

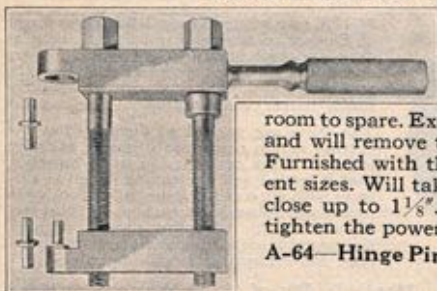
Cotter Pin Tool



S-6P—For spreading and removing cotter pins. Also used for packing water pumps, etc. Made of "Supreme" chisel steel with square bevel shank. 6" long, $\frac{5}{16}$ " stock. Not guaranteed. Each . . . \$0.45

Snap-ons Lead in Utility and Dependability

Hinge Pin Puller



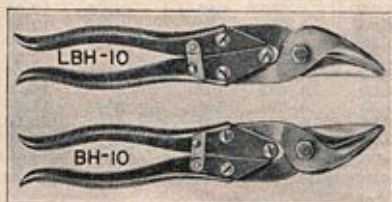
MAKES short work of all hinge pin jobs... takes all sizes and types and clears all obstructions with

room to spare. Exerts a powerful leverage and will remove the most stubborn pin. Furnished with three adaptors of different sizes. Will take up to a 3" hinge and close up to 1 1/8". Use a 3/4" wrench to tighten the power screws.

A-64—Hinge Pin Puller. Each... \$5.35

Metal Cutting Shears

Designed primarily for the cutting of Duralumin, stainless steel, and other tough metals, and useful in automotive and aircraft shops, tinner and plumber shops, etc., where a high grade cutting



tool is needed. Made in both right and left hand patterns. Blades not guaranteed.

BH-10 — Right Hand Metal Shears.

Each... \$3.45

LBH-10 — Left Hand Metal Shears.

Each... \$3.45

Heavy Duty Tinner's Snips

Laid Blades... a process by which the cutting edges are forged from bar tool steel and inlaid on soft steel backs—this produces an extremely hard and durable cutting edge while handles are forged from crucible steel. Cutting edges hand filed by experts to insure a perfectly matched fit. Overall length 12 1/2", Blade length 3". Not Guaranteed.

19-TS H.D. Tinner's Snips. Each... \$2.50



Soldering Irons

Offered in two sizes... for radio and other light work use GA-20; it is fast heating and holds the heat long enough for any light work. For all heavy soldering we recommend the GA-30... this iron has a large heavy tip and heats very rapidly—it will hold the heat much longer than smaller irons. The solid compressed copper tips are easily replaceable. Sizes listed are for 105 to 120 volts, A.C. or D.C. We can furnish on special order tools wound for 210 to 240 A.C. or D.C. Guaranteed only against defects in materials.

GA-20—100 W. Iron.

1/2" Tip... \$2.85

GA-30—150 W. Iron.

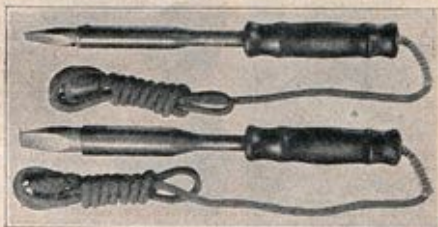
3/8" Tip... 4.50

GA-20A—Extra 1/2"

Tip... .35

GA-30A—Extra 3/8"

Tip... .65



See Inside Back Cover for Nearest Branch

Super Duty Wire Wheel Brushes



TIRE retreading shops will find these Super Duty wire wheels especially valuable, as they are available up to 4 1/4" wide and are constructed of finer wire which will stand the strain of constant flexing without breaking much longer than ordinary wire wheels.

The wires are packed so densely that the cutting action resembles a coarse abrasive stone . . . the resiliency is such, however, that it lends itself to cleaning irregular surfaces without scoring. Especially effective in removing rubber, scale, carbon, etc. Not recommended for cleaning greasy fittings. Guaranteed only against defects in materials. Recommended Spindle Speeds—

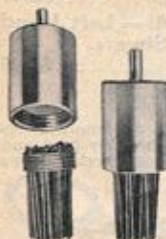
Dia. of Wheel	Min. R.P.M.	Max. R.P.M.
4"	3000	3750
6"	2500	3500

Dia. of Wheel	Min. R.P.M.	Max. R.P.M.
8"	2200	3200
10"	1800	3000

Stock No.	Diam.	Face Width	Price
A-641	4"	1"	\$2.35
A-642	4"	1 1/2"	3.25
A-643	4"	2"	4.00
A-644	4"	2 1/2"	5.00
A-662	6"	1 1/2"	3.75
A-663	6"	1 3/4"	5.00
A-664	6"	2 1/4"	8.00
A-665	6"	3 1/4"	9.50
A-682	8"	1 3/8"	4.75
A-683	8"	2"	6.50

Stock No.	Diam.	Face Width	Price
A-684	8"	2 5/8"	\$8.50
A-685	8"	3 1/4"	10.50
A-686	8"	3 3/8"	12.00
A-690	10"	1 1/2"	6.50
A-691	10"	2"	9.00
A-692	10"	2 1/2"	12.00
A-693	10"	3"	15.00
A-694	10"	3 1/2"	17.25
A-695	10"	4"	20.00
A-696	10"	4 1/4"	22.50

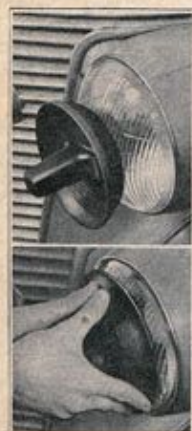
Each wheel is complete with one pair of adaptors. Size of arbor hole must be specified on order. Extra adaptors 20c per pair.



Carbon Cleaning Brush for Use with an Electric Drill

Made with wires stiff enough to effectively remove hard carbon and not bend with the rotation of the drill. Additional wire fillers may readily be inserted into the threaded plug when needed. This tool is not guaranteed.

RS-2—Brush Complete. Each \$2.00
RS-2A—Set of Refill Wires35



Headlight Lens Remover

An improved tool for removing headlight lens without danger of breaking the glass and cutting your hands when one of these lenses has become stuck to the washer. The long square handle affords a better hand hold and firm grip. Works to perfection for pulling off hub caps, pulling out dented panels and similar jobs . . . will often save removing door trim or welding rods to such panels. Use as illustrated to obtain the best suction grip. This tool is not guaranteed.

HL-6A — Headlight Lens Remover. Each \$0.90



Tail Lens Remover

Rimless tail lights also often need a suction cup for removal of the lens, and we offer this new tool for the purpose. Molded from a good grade of rubber with convenient handle grip. Safe and sure in use. Not guaranteed.

HL-3—Tail Light Lens Remover. Each \$0.40

Look for the Names Snap-on—Blue-Point

Phillips Head Screw Drivers



Stock No.	Phillips Bit No.	Length of Shank	Machine Screw Diameters	Wood Screw Diameters	Stove Bolt Diameters	Case Hardened Sheet Metal Screw Diameters	Price
Flat, Oval, and Fillister Heads						Flat and Oval Heads	
ST-3	1	3"	#4 and Smaller	#4 and Smaller	1/8" to 3/8"	#4	\$0.55
ST-4	2	4"	#5 to #10 Inc.	#5 to #9 Inc.	1/8" to 3/8"	#5 to #10 Inc.	.65
ST-6	3	6"	#12 to 3/8"	#10 to #16 Inc.	1/4" to 3/8"	#12 to #14 Inc.	.85
ST-8	4	8"	3/8" and Larger	#18 and Larger	3/8" to 1/2"		1.10
Round Heads							
ST-3	1	3"	#5	#4 and Smaller	1/8" to 3/8"	#4 and #5	\$0.55
ST-4	2	4"	#6 to #10 Inc.	#5 to #10 Inc.	1/8" to 3/8"	#6 to #12 Inc.	.65
ST-6	3	6"	#12 to 3/8"	#11 to #16 Inc.	1/4" to 3/8"	#14	.85
ST-8	4	8"	3/8" and Larger	#18 and Larger	3/8" to 1/2"		1.10

New Type Flashlight Screw Driver



A convenient tool for work in dark places. Bulb is centered behind the blade so that all light is thrown directly on the work without shadows. Metal plug on end of handle acts as switch.

Fitted with pocket clip. Blade 2" long, overall length 5 1/2". Metal construction throughout. Not guaranteed.

ED-2—Complete with battery and bulb.....\$1.00

Neon Tubes for Spark Testing Screw Drivers

NT-2—Replacement Neon Tubes for No. 145 Screw Driver are available. When replacing tubes, be sure to save the original springs in screw driver handle, as none are included with the tubes. Not Guaranteed. Each....\$0.25

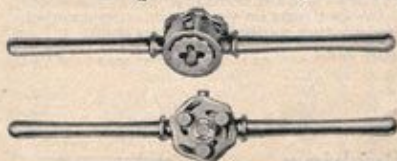
Headlight Bulb Pliers

This new tool has serrated jaws which are so formed as to fully encircle the base of the bulb, giving a firm grip without danger of crushing the base. Handles are springy and will yield before causing injury to the bulb.



HL-17—Headlight Bulb Pliers. Each.....\$0.45

Improved Adjustable Die Stock



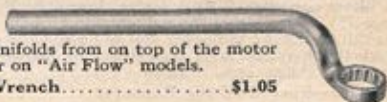
An improved die stock now available for the TD-2400 Set shown on page 115. This handle has an adjustable centering guide and takes all die sizes up to and including 1/2". Adjusts to any size rod or bolt and prevents dies from breaking due to tilting or cocking.

TD-10—Adjustable Die Stock. Each.....\$1.15

Chrysler Manifold Boxocket Wrench

Designed for work on Chrysler line manifolds 1936 and 1937 models. Makes it possible to work on intake and exhaust manifolds from on top of the motor instead of from under the fender on "Air Flow" models.

S-9364—Chrysler Manifold Wrench.....\$1.05



Don't Stall Customers . . . Install Snap-ons

Ford Shock Absorber Tools



EVERY mechanic needs this tool when working on Ford shock absorbers. The long, slender, tapered fork is easily inserted and is just the right width to separate the tie rod from the absorber link.

For work on front shock absorber arms on V-8 models, 1934 and earlier, the adaptor bushing is a necessary unit.

S-9092-A—Shock Absorber Separator.....\$2.25

S-9092-A1—Adaptor Bushing......35

Ford Double End Valve Lifter



Designed to service Ford valves on both the 85 and 60 series. Two tools in one at lower cost. Ample strength is provided through the use of the finest steel and the heads reinforced by side ribs.

S-9088-B—Ford Valve Lifter.....\$2.55

Chevrolet Cylinder Head Tool

A special $\frac{3}{4}$ " boxsocket that takes all six cylinder Chevy models. Two ends of different shapes and offsets enable you to reach every bolt with ease. You'll appreciate this tool when you use it. $13\frac{3}{4}$ " long with 90° end head $7\frac{1}{4}$ " offset from handle, 45° end head $4\frac{3}{4}$ " offset from handle.

S-9594-B—Chevy Cylinder Head Wrench.....\$2.35



Ford "V-8" Motor Jack

A convenient tool for raising the front end of the motor when removing the crankcase on V-8 Ford. The job can be done without removing the hood and with the car in any position on the floor. Threaded nut screws into the crankshaft after removal of fan pulley nut and the foot rests on the chassis cross member. Motor is easily raised by turning the large screw shaft.

S-9073—Ford Motor Jack.....\$4.25

Ford Valve Bushing Remover — SS-9010

Exactly right for 1935 and later Ford cars. Short enough to allow use with S-9095 Valve Assembly Puller (See page 75). It will drive the valve guide bushing down far enough to remove the upper key and also allow the valve head to be raised high enough to be gripped by the Assembly Puller Tool.

SS-9010—Ford Bushing Remover.....\$0.40



Ford Specials for Mechanic and Shop

Pilot Bearing Puller

For Clutch Pilot, Generator, and Other Small Bearings



A NEW tool that greatly simplifies the job of removing clutch pilot bearings. It is thoroughly universal with a range from .393" or $\frac{1}{16}$ " to $1\frac{1}{4}$ ", and is the only tool to our knowledge which will service the Hudson-Terraplane bearings and Oilite bushings. Its use includes all small work on inside pulls on such jobs as motors, generators, magnetos, etc. Two pairs of jaws are furnished—the smaller pair for bearings and the larger pair for bronze and Oilite bushings.

A-78 — Bearing Puller	
Complete	\$4.35
A-78-1 — Body .....	.85
A-78-2 — Jaw Holder .....	.80
A-78-3 — Large Jaws (each) .....	.45
A-78-4 — Small Jaws (each) .....	.45
A-78-5 — Screw .....	.80
A-78-6 — Pin .....	.15
A-78-7 — Slide Bar .....	.25
A-78-9 — Nut .....	.10

Bushings Remover Tool

For Bronze or Steel Bushings

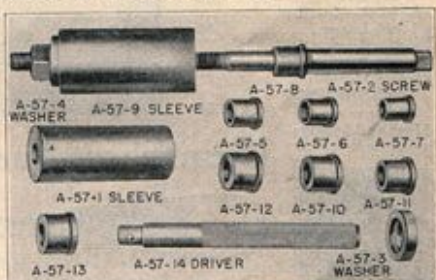
The same tool as shown on page 130 but with the addition of a driver that converts the set into a driving as well as a pulling unit.

This set will remove or insert all bronze or steel bushings with inside diameters of the sizes listed below and all outside diameters up to $1\frac{1}{4}$ " and not exceeding 3" in length. This range covers almost all shackle and steering bushings. Do the job easily and without danger of injury to any part with this special tool.

A-57-B — Bushing Remover Set. Complete with all parts listed below. Tools only

A-57-BC — Complete Set in 20-B Metal Box

A-57-1 — Sleeve (for bushings up to 1" dia.)	\$0.85
A-57-9 — Sleeve (for bushings 1" to $1\frac{1}{4}$" dia.) ..	1.15
A-57-2 — Screw	1.05
A-57-3 — Thick Washer .....	.25
A-57-4 — Thin Washer .....	.25
A-57-14 — Driver .....	.80
A-57-5 — $\frac{1}{8}$" Adaptor .....	.25



A-57-6 — $\frac{11}{16}$" Adaptor	\$0.25
A-57-7 — $\frac{5}{8}$" Adaptor .....	.20
A-57-8 — $\frac{3}{4}$" Adaptor .....	.20
A-57-10 — $\frac{37}{64}$" Adaptor .....	.25
A-57-11 — $\frac{7}{8}$" Adaptor .....	.25
A-57-12 — $\frac{15}{16}$" Adaptor .....	.30
A-57-13 — 1" Adaptor .....	.30
20-B — Metal Box .....	.75

Brake Spring Tool



KB-9 — Removes and replaces the most stubborn springs in a jiffy . . . saves time and trouble . . . prevents hand injuries and, in short, makes this generally troublesome job a cinch. Indispensable where springs fit over a post. Each

\$1.25

Tools That Simplify Some Difficult Jobs

Blue-Point Air Valve Lapper

The only power-operated Valve Grinder that both oscillates and automatically rotates the valve as it is being lapped into its seat . . . both motions must be used to effectively remove all "valleys" and "high-spots." With speed instantly adjustable from 300 to 3,000 strokes per minute, this tool does a fine job on hard steel and Stellite valve seats.

There are no cams or gears in the driving mechanism of this tool . . . wearing parts are therefore reduced to an absolute minimum. Exceptionally smooth operation is obtained through the use of a feather-weight piston of unusual design—no shock or vibration even at the highest operating speeds.



VL-57—Complete Outfit with Hose and Fittings, Spring, Bit, Suction Cups (Large and Small), and Grinding Compound	\$16.75
VL-50—Pneumatic Grinder only	14.75
VL-51—8' Hose with Fittings	2.00
VL-52—Fittings only for Hose (Each) . . . . .	.20
VL-53—Valve Lift Spring . . . . .	.15
VL-54—Hardened Steel Driving Bit . . . . .	.20
VL-55-A—Suction Cup, Large . . . . .	.15
VL-55-B—Suction Cup, Small . . . . .	.15
VL-56—Grinding Compound, 6 oz. Can . . . . .	.50

Hose and fittings not guaranteed.



Crankshaft Turning Tool



ENABLES one man to turn the motor in either direction from his position under the car. Similar in construction to a strap wrench, the brass lined metal band is adjustable to various diameters by means of a series of holes in the strap and a pin in the head. A floating bronze cap on the end of the shaft grips the crankshaft without any danger of marring the surface. This tool will also be found very useful in dairy and other plants where polished pipe must be turned. Adjustment band not guaranteed.

BR-45—Crankshaft Turning Tool \$4.80



Piston Setting Tool

Working from below the mechanic can reach up through the bore, place the slotted end around the connecting rod and the dowel pin through the connecting rod bolt hole and used to pull the connecting rod down in perfect alignment with the crankshaft. Saves calling for help when working on this job.

BR-50—Piston Setting Tool \$1.25

Do It Better With Snap-on Equipment

Metric Wrench Section

WE carry a complete range of wrenches broached to Metric Standards, as listed on these pages 147 to 149. These wrenches are the same consistently high quality that has made the names Snap-on—Blue-Point respected wherever tools are used.

Midget Single Hex. Sockets

($\frac{9}{32}$ " Square Drive)

For Use with Handles on Pages 35-36



Stock No.	Nominal Size	Outside Diameter		Overall Length	Price
		Socket End	Drive End		
M-4M	4 mm.	.278	.500	$\frac{1}{2}$ "	\$0.25
M-5M	5 mm.	.323	.500	$\frac{1}{2}$ "	.25
M-6M	6 mm.	.388	.500	$\frac{1}{2}$ "	.25
M-7M	7 mm.	.430	.500	$\frac{1}{2}$ "	.25
M-8M	8 mm.	.472	.500	$\frac{1}{2}$ "	.25
M-9M	9 mm.	.542	.562	$\frac{1}{2}$ "	.25
M-10M	10 mm.	.605	.625	$\frac{1}{2}$ "	.25

Ferret Double Hex. Sockets

($\frac{3}{8}$ " Square Drive)

For Use with Handles on Pages 31-32



Stock No.	Nominal Size	Outside Diameter		Overall Length	Price
		Socket End	Drive End		
F-9M	9 m.	.519	.625	$\frac{29}{32}$ "	\$0.40
F-10M	10 m.	.559	.625	$\frac{29}{32}$ "	.40
F-11M	11 m.	.619	.625	$\frac{29}{32}$ "	.40
F-12M	12 m.	.656	.625	$\frac{29}{32}$ "	.40
F-13M	13 m.	.687	.656	$\frac{29}{32}$ "	.40
F-14M	14 m.	.760	.728	$\frac{29}{32}$ "	.40
F-15M	15 m.	.812	.781	$\frac{15}{16}$ "	.40
F-16M	16 m.	.875	.843	$\frac{15}{16}$ "	.40
F-17M	17 m.	.937	.906	1"	.45
F-18M	18 m.	.947	.916	1"	.45
F-19M	19 m.	1.000	.968	1"	.45

Master Double Hex. Sockets

($\frac{1}{2}$ " Square Drive)

For Use with Handles on Pages 23-24-25-26



Stock No.	Nominal Size	Outside Diameter		Overall Length	Price
		Socket End	Handle End		
SW-10M	10 m.	.548	.875	$1\frac{1}{2}$ "	\$0.50
SW-11M	11 m.	.625	.875	$1\frac{1}{2}$ "	.50
SW-12M	12 m.	.660	.875	$1\frac{1}{2}$ "	.50
SW-13M	13 m.	.711	.875	$1\frac{1}{2}$ "	.50
SW-14M	14 m.	.789	.875	$1\frac{1}{2}$ "	.50
SW-15M	15 m.	.828	.875	$1\frac{1}{2}$ "	.50
SW-16M	16 m.	.875	.875	$1\frac{1}{2}$ "	.50
SW-17M	17 m.	.947	.953	$1\frac{1}{2}$ "	.55
SW-18M	18 m.	.967	1.000	$1\frac{1}{2}$ "	.55
SW-19M	19 m.	1.010	1.015	$1\frac{1}{2}$ "	.60
SW-20M	20 m.	1.062	1.062	$1\frac{1}{2}$ "	.60
SW-21M	21 m.	1.125	1.125	$1\frac{1}{2}$ "	.60
SW-22M	22 m.	1.187	1.187	$1\frac{1}{2}$ "	.60
SW-23M	23 m.	1.250	1.250	$1\frac{1}{2}$ "	.75
SW-24M	24 m.	1.250	1.250	$1\frac{1}{2}$ "	.80
SW-25M	25 m.	1.312	1.312	$1\frac{1}{2}$ "	.85
SW-26M	26 m.	1.375	1.375	$1\frac{1}{2}$ "	.90
SW-27M	27 m.	1.437	1.437	$1\frac{1}{2}$ "	.90
SW-28M	28 m.	1.500	1.500	$1\frac{1}{2}$ "	.95
SW-29M	29 m.	1.562	1.530	$1\frac{1}{2}$ "	.95
SW-30M	30 m.	1.625	1.625	$1\frac{1}{2}$ "	1.00
SW-32M	32 m.	1.687	1.687	$1\frac{1}{2}$ "	1.05

Standard Metric Wrenches for All Industry

Metric Heavy Duty Double Hex. Loxockets ($\frac{3}{4}$ " Square Drive)

For Use with Handles on Pages 20-21



Stock No.	Nominal Size	Outside Diameter Socket End	Overall Length	Price
LDH-32M	32 m.	1.781	2 $\frac{1}{4}$	\$1.20
LDH-33M	33 m.	1.875	2 $\frac{1}{8}$	1.25
LDH-35M	35 m.	1.937	2 $\frac{3}{8}$	1.30
LDH-36M	36 m.	2.032	2 $\frac{3}{8}$	1.45
LDH-38M	38 m.	2.093	2 $\frac{3}{8}$	1.55
LDH-39M	39 m.	2.187	2 $\frac{3}{8}$	1.55
LDH-40M	40 m.	2.187	2 $\frac{3}{8}$	1.55
LDH-41M	41 m.	2.250	2 $\frac{3}{8}$	1.80
LDH-42M	42 m.	2.375	2 $\frac{3}{8}$	1.80
LDH-45M	45 m.	2.500	2 $\frac{7}{8}$	2.10
LDH-46M	46 m.	2.500	2 $\frac{7}{8}$	2.10
LDH-50M	50 m.	2.750	3 $\frac{1}{8}$	2.65
LDH-55M	55 m.	3.000	3 $\frac{1}{4}$	3.35

Metric "Supreme" Open End Wrenches



(See page 50 for complete description)

Stock Number	Nominal Wrench Opening	Head Diameter	Head Thickness	Overall Length	Price
S-67M	6M & 7M	.843 & .687	.210	4 $\frac{3}{4}$	\$0.50
S-89M	8M & 9M	.843 & .687	.210	4 $\frac{3}{4}$	.55
S-810M	8M & 10M	.921 & .796	.230	5 $\frac{1}{8}$	.60
S-911M	9M & 11M	.921 & .796	.230	5 $\frac{1}{8}$	.65
S-1213M	12M & 13M	1.032 & .906	.250	5 $\frac{11}{16}$	.70
S-1214M	12M & 14M	1.032 & .906	.250	5 $\frac{11}{16}$	.75
S-1415M	14M & 15M	1.187 & 1.032	.280	6 $\frac{3}{8}$	.80
S-1618M	16M & 18M	1.375 & 1.218	.290	7 $\frac{1}{4}$	.90
S-1719M	17M & 19M	1.375 & 1.218	.290	7 $\frac{1}{4}$	1.00
S-2022M	20M & 22M	1.656 & 1.500	.330	8 $\frac{7}{8}$	1.25
S-2123M	21M & 23M	1.656 & 1.500	.330	8 $\frac{7}{8}$	1.35
S-2426M	24M & 26M	2.063 & 1.937	.400	10 $\frac{1}{2}$	1.50
S-2528M	25M & 28M	2.343 & 2.218	.450	11 $\frac{1}{2}$	1.80
S-2729M	27M & 29M	2.343 & 2.218	.450	11 $\frac{1}{2}$	2.00
S-2832M	28M & 32M	2.593 & 2.343	.500	15	2.25
S-3032M	30M & 32M	2.593 & 2.343	.500	15	2.50

Metric "Supreme" Tappet Wrenches

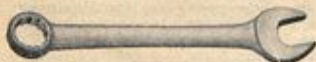


(See page 48 for complete description)

Stock Number	Nominal Wrench Opening	Head Diameter	Head Thickness	Overall Length	Price
ST-89M	8M & 9M	1.063 & .984	.156	7 $\frac{15}{16}$	\$0.85
ST-98M	9M & 8M	.984 & 1.063	.156	7 $\frac{15}{16}$	.85
ST-1011M	10M & 11M	1.063 & .984	.156	7 $\frac{15}{16}$	.85
ST-1110M	11M & 10M	.984 & 1.063	.156	7 $\frac{15}{16}$	.85
ST-1213M	12M & 13M	1.187 & 1.063	.170	8 $\frac{1}{8}$	.85
ST-1312M	13M & 12M	1.063 & 1.187	.170	8 $\frac{1}{8}$	.85
ST-1415M	14M & 15M	1.312 & 1.156	.180	8 $\frac{3}{8}$	.85
ST-1514M	15M & 14M	1.156 & 1.312	.180	8 $\frac{3}{8}$	.85
ST-1617M	16M & 17M	1.421 & 1.312	.186	8 $\frac{3}{8}$	.95
ST-1716M	17M & 16M	1.312 & 1.421	.186	8 $\frac{3}{8}$	.95
ST-1819M	18M & 19M	1.412 & 1.312	.186	8 $\frac{3}{8}$	.95
ST-1918M	19M & 18M	1.312 & 1.421	.186	8 $\frac{3}{8}$	.95
ST-2022M	20M & 22M	1.531 & 1.406	.200	8 $\frac{1}{2}$	1.05
ST-2220M	22M & 20M	1.406 & 1.531	.200	8 $\frac{1}{2}$	1.05

Standard Metric Wrenches for All Industry

Metric Combination Wrenches



A BOXOCKET and an Open End Wrench is one tool . . . both ends of the tool in the same wrench size. This tool cannot be equalled for close quarter work and for all round convenience.

Stock Number	Nominal Wrench Opening	Head Diameter		Head Thickness		Overall Length	Price
		Box End	Open End	Box End	Open End		
OEX-10M	10M	.500	.811	.250	.203	5 ¹ / ₈	\$0.70
OEX-11M	11M	.608	.927	.312	.234	5 ⁷ / ₁₆	.75
OEX-12M	12M	.608	.927	.312	.234	5 ⁷ / ₁₆	.75
OEX-13M	13M	.695	1.050	.325	.250	5 ²³ / ₃₂	.80
OEX-14M	14M	.782	1.168	.330	.265	6	.85
OEX-15M	15M	.865	1.281	.343	.281	6 ⁵ / ₁₆	.90
OEX-16M	16M	.865	1.281	.343	.281	6 ⁵ / ₁₆	.90
OEX-17M	17M	.950	1.396	.365	.296	6 ¹³ / ₃₂	1.05
OEX-18M	18M	.950	1.396	.365	.296	6 ¹³ / ₃₂	1.05



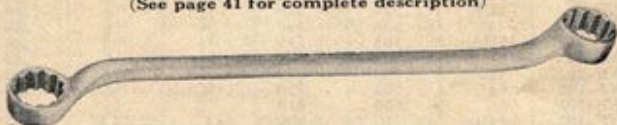
Metric Dwarf Boxockets

(See page 44 for complete description.)

Stock Number	Nominal Wrench Openings	Head Thickness	Head Diameter	Overall Length	Price
XS- 910M	9M & 10M	³ / ₄ & ⁹ / ₁₆	.540 & .595	4 ¹³ / ₁₆	\$0.75
XS-1112M	11M & 12M	⁵ / ₁₆ & ¹¹ / ₁₆	.640 & .700	5 ¹ / ₄	.80
XS-1314M	13M & 14M	⁵ / ₁₆ & ¹¹ / ₁₆	.740 & .801	5 ¹ / ₂	.85
XS-1516M	15M & 16M	¹¹ / ₁₆ & ³ / ₄	.840 & .895	5 ¹⁵ / ₁₆	.90
XS-1719M	17M & 19M	¹¹ / ₁₆ & ¹³ / ₁₆	.962 & 1.073	6 ¹ / ₂	1.15
XS-1820M	18M & 20M	¹¹ / ₁₆ & ¹³ / ₁₆	1.000 & 1.142	6 ⁵ / ₈	1.25

Metric Double Offset Boxockets

(See page 41 for complete description)



Stock Number	Nominal Wrench Openings	Head Thickness	Head Diameter	Overall Length	Price
X-1011M	10M & 11M	¹¹ / ₃₂ & ¹¹ / ₃₂	.650 & .690	8 ¹ / ₂	\$0.95
X-1213M	12M & 13M	¹¹ / ₃₂ & ¹¹ / ₃₂	.750 & .794	9 ¹ / ₄	1.00
X-1415M	14M & 15M	⁹ / ₁₆ & ⁷ / ₁₆	.845 & .900	10	1.10
X-1617M	16M & 17M	⁷ / ₁₆ & ⁷ / ₁₆	.950 & 1.012	10 ³ / ₄	1.25
X-1819M	18M & 19M	¹⁵ / ₃₂ & ¹⁵ / ₃₂	1.062 & 1.115	11 ¹ / ₂	1.40
X-2021M	20M & 21M	¹ / ₂ & ¹ / ₂	1.165 & 1.212	12 ¹ / ₄	1.40
X-2223M	22M & 23M	⁹ / ₁₆ & ⁵ / ₈	1.262 & 1.322	13	1.50
X-2425M	24M & 25M	⁵ / ₈ & ⁵ / ₈	1.375 & 1.430	13 ³ / ₄	1.70
X-2627M	26M & 27M	¹¹ / ₁₆ & ¹¹ / ₁₆	1.490 & 1.571	14 ¹ / ₂	2.25
X-2829M	28M & 29M	³ / ₄ & ³ / ₄	1.650 & 1.700	15 ¹ / ₄	2.50
X-3032M	30M & 32M	¹⁵ / ₁₆ & ¹⁵ / ₁₆	1.750 & 1.850	16	2.95
X-3132M	31M & 32M	¹⁵ / ₁₆ & ¹² / ₁₆	1.800 & 1.850	16 ³ / ₄	2.95

Metric Wrench Sets

Tool Sets containing wrenches broached to Metric Standards can be furnished complete in metal boxes or as tool selections only in similar ranges as the Whitworth sets shown on pages 154 to 156, or the standard sets shown on pages 2 to 17. Also, we shall be glad to make up sets to your own selection. Write us, giving your particular requirements.

Standard Metric Wrenches for All Industry

Whitworth Wrench Section

ALL the Whitworth sizes mentioned on these pages are for Engineer's Standard Size Heads and Nuts, and are suitable for a larger size in Auto Whitworth and British Standard Fine Nuts, i.e., $\frac{1}{2}$ " Standard Whitworth will fit $\frac{3}{8}$ " Auto Whitworth and British Standard Fine Nuts.

Use with
handles on
pages 35-36

Whitworth Midget Series Single Hexagon Sockets

($\frac{9}{32}$ " Square Drive) TABLE 1



Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Outside Diameter		Overall Length	Price
			Socket End	Handle End		
WM-91	7BA	.172	.313	$\frac{1}{8}$ "	$\frac{7}{8}$ "	\$0.25
WM-92	6BA	.193	.313	$\frac{1}{8}$ "	$\frac{7}{8}$ "	.25
WM-93	5BA	.220	.353	$\frac{1}{8}$ "	$\frac{7}{8}$ "	.25
WM-94	4BA	.248	.388	$\frac{1}{8}$ "	$\frac{7}{8}$ "	.25
WM-95	3BA	.282	.430	$\frac{1}{8}$ "	$\frac{7}{8}$ "	.25
WM-96	2BA	.324	.472	$\frac{1}{8}$ "	$\frac{7}{8}$ "	.25
WM-96A	$\frac{1}{8}$ "	.338	.500	$\frac{1}{8}$ "	$\frac{7}{8}$ "	.25
WM-97	1BA	.365	.542	$\frac{1}{8}$ "	$\frac{7}{8}$ "	.25
WM-98	OBA	.413	.605	$\frac{1}{8}$ "	$\frac{7}{8}$ "	.25



Whitworth Ferret Double Hexagon Sockets

($\frac{3}{8}$ " Square Drive) TABLE 2

Use with
handles on
pages 31-32

Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Outside Diameter		Overall Length	Price
			Socket End	Handle End		
WF-94	4BA	.248	.438	$\frac{3}{8}$ "	$\frac{29}{32}$ "	\$0.40
WF-95	3BA	.282	.470	$\frac{3}{8}$ "	$\frac{29}{32}$ "	.40
WF-96	2BA	.324	.500	$\frac{3}{8}$ "	$\frac{29}{32}$ "	.40
WF-96A	$\frac{1}{8}$ "	.338	.540	$\frac{3}{8}$ "	$\frac{29}{32}$ "	.40
WF-97	1BA	.365	.540	$\frac{3}{8}$ "	$\frac{29}{32}$ "	.40
WF-98	OBA	.413	.609	$\frac{3}{8}$ "	$\frac{29}{32}$ "	.40
WF-99	$\frac{3}{8}$ "	.448	.609	$\frac{3}{8}$ "	$\frac{29}{32}$ "	.40
WF-100	$\frac{1}{2}$ "	.525	.750	$\frac{3}{8}$ "	$\frac{29}{32}$ "	.40
WF-101	$\frac{5}{8}$ "	.600	.812	$\frac{11}{16}$ "	$\frac{15}{16}$ "	.40
WF-102	$\frac{3}{4}$ "	.710	1.000	1	1	.45

Use with
handles on
pages 23 to 26

Whitworth Master Double Hexagon Sockets

($\frac{1}{2}$ " Square Drive) TABLE 3



Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Outside Diameter		Overall Length	Price
			Socket End	Handle End		
WSW-96A	$\frac{1}{8}$ "	.340	.554	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	\$0.50
WSW-98	OBA	.413	.590	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	.50
WSW-99	$\frac{3}{8}$ "	.448	.625	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	.50
WSW-100	$\frac{1}{4}$ "	.525	.741	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	.50
WSW-101	$\frac{5}{8}$ "	.600	.828	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	.50
WSW-102	$\frac{3}{8}$ "	.710	.947	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	.50
WSW-103	$\frac{1}{2}$ "	.820	1.125	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	.60
WSW-104	$\frac{1}{2}$ "	.920	1.250	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	.60
WSW-105	$\frac{3}{8}$ "	1.010	1.312	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	.75
WSW-106	$\frac{5}{8}$ "	1.100	1.500	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	.85
*WSW-107	$1\frac{1}{8}$ "	1.200	1.625	$1\frac{1}{8}$ "	2	.95
WSW-108	$\frac{3}{4}$ "	1.300	1.750	$1\frac{1}{8}$ "	2	1.00

*Made Special to Order Only.

Whitworth Wrench Equipment for All Industry

Whitworth Master Extra Deep Hexagon Sockets



(1/2" Square Drive) TABLE 4

Use with handles on pages 23 to 26

Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Outside Diameter		Overall Length	Price
			Socket End	Handle End		
WS-99	3/16	.448	.689	7/8	3 1/4	\$0.90
WS-100	1/4	.525	.800	1	3 1/4	.90
WS-101	5/16	.600	.890	1 1/8	3 1/4	.95
WS-102	3/8	.710	1.010	1 1/4	3 1/4	.95
WS-103	7/16	.820	1.125	1 3/8	3 1/4	1.00
WS-104	1/2	.920	1.250	1 1/2	3 1/2	1.15
WS-105	5/8	1.010	1.312	1 5/8	3 1/2	1.20
WS-106	3/4	1.100	1.500	1 3/4	3 1/2	1.35

Whitworth Heavy Duty Double Hexagon Loxockets

(3/4" Square Drive) TABLE 5

For use with handles on pages 20-21



Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Outside Diameter		Overall Length	Price
			Socket End	Handle End		
WL-104	3/8	.920	1.375	1 13/16	2	\$0.85
WL-105	9/16	1.010	1.440	1 15/16	2 1/8	.90
WL-106	5/8	1.100	1.625	1 15/16	2 1/8	1.00
*WL-107	11/16	1.200	1.687	1 15/16	2 1/8	1.05
WL-108	3/4	1.300	1.875	1 15/16	2 1/8	1.25
*WL-109	13/16	1.390	1.937	1 15/16	2 1/8	1.25
WL-110	7/8	1.480	2.093	1 15/16	2 1/8	1.55
*WL-111	15/16	1.574	2.187	1 15/16	2 1/8	1.55
WL-112	1	1.670	2.375	1 5/8	2 3/4	1.95
WL-113	1 1/8	1.860	2.562	1 5/8	3	2.35
WL-114	1 1/4	2.050	2.875	1 3/4	3 1/4	2.65

*Made Special to Order Only.

Whitworth Short Handle Series Combination Wrenches

Designed with a Boxocket opening at one end and a spanner of the same size at the other, these new type wrenches offer decided advantages over the single type wrench. The Boxocket end comes in mighty useful for breaking tight nuts loose or pulling them tight and the spanner for fast turning work.

This short handled series cannot be equaled for close quarter work, and the double-duty handles give you a Boxocket and an Open End set for the price of one set.



Stock Number	Whitworth Bolt Size	Nominal Wrench Opening	Head Diameter		Overall Length	Price
			Box End	Open End		
WOEX-6A	3/8	.338	.500	.811	5 1/8	\$0.70
WOEX-70	1BA	.365	.500	.811	5 1/8	.70
WOEX-80	OBA	.413	.608	.927	5 1/8	.75
WOEX-90	3/8	.448	.695	1.050	5 7/8	.80
WOEX-100	1/4	.525	.782	1.168	6	.85
WOEX-110	5/16	.600	.865	1.281	6 5/8	.90
WOEX-120	3/8	.710	.950	1.396	6 1/2	1.05

Whitworth Wrench Equipment for All Industry

Whitworth Combination Wrenches

Long Handle Series



Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Head Diameter		Overall Length	Price
			Box End	Open End		
WOEX-9	$\frac{3}{16}$ "	.448"	.743"	1.050"	$7\frac{3}{8}$ "	\$0.85
WOEX-10	$\frac{1}{4}$ "	.525"	.813"	1.168"	$8\frac{1}{2}$ "	.90
WOEX-11	$\frac{5}{16}$ "	.600"	.893"	1.281"	$8\frac{11}{16}$ "	1.00
WOEX-12	$\frac{3}{8}$ "	.710"	1.075"	1.515"	$10\frac{11}{16}$ "	1.30
WOEX-13	$\frac{7}{16}$ "	.820"	1.165"	1.634"	$10\frac{7}{8}$ "	1.40
WOEX-14	$\frac{1}{2}$ "	.920"	1.343"	1.876"	$11\frac{1}{2}$ "	1.60
WOEX-15	$\frac{9}{16}$ "	1.010"	1.443"	1.996"	$11\frac{11}{16}$ "	1.75

Whitworth 15° Angle Boxockets

(See page 42 for complete description)



Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Head Thickness	Head Diameter	Overall Length	Price
WDX-6A9	$\frac{1}{8}$ " & $\frac{3}{16}$ "	.338" & .448"	$\frac{3}{16}$ " & $\frac{11}{32}$ "	.550" & .650"	$8\frac{1}{2}$ "	\$0.90
WDX-910	$\frac{1}{8}$ " & $\frac{1}{4}$ "	.448" & .525"	$\frac{11}{32}$ " & $\frac{3}{8}$ "	.650" & .800"	9"	.95
WDX-1011	$\frac{1}{8}$ " & $\frac{5}{16}$ "	.525" & .600"	$\frac{3}{8}$ " & $\frac{7}{16}$ "	.800" & .895"	$9\frac{5}{8}$ "	1.05
WDX-1112	$\frac{1}{8}$ " & $\frac{3}{8}$ "	.600" & .710"	$\frac{7}{16}$ " & $\frac{13}{16}$ "	.895" & 1.050"	$10\frac{5}{8}$ "	1.15
WDX-1213	$\frac{1}{8}$ " & $\frac{7}{16}$ "	.710" & .820"	$\frac{13}{16}$ " & $\frac{1}{2}$ "	1.050" & 1.158"	11"	1.30
WDX-1314	$\frac{1}{8}$ " & $\frac{1}{2}$ "	.820" & .920"	$\frac{1}{2}$ " & $\frac{5}{8}$ "	1.200" & 1.324"	12"	1.50
WDX-1415	$\frac{1}{8}$ " & $\frac{9}{16}$ "	.920" & 1.010"	$\frac{5}{8}$ " & $\frac{3}{4}$ "	1.324" & 1.403"	13"	1.75
WDX-1516	$\frac{1}{8}$ " & $\frac{5}{8}$ "	1.010" & 1.100"	$\frac{3}{4}$ " & $\frac{11}{8}$ "	1.403" & 1.560"	14"	1.95
WDX-1618	$\frac{1}{8}$ " & $\frac{3}{4}$ "	1.100" & 1.300"	$\frac{11}{8}$ " & $\frac{3}{2}$ "	1.600" & 1.873"	15"	2.25

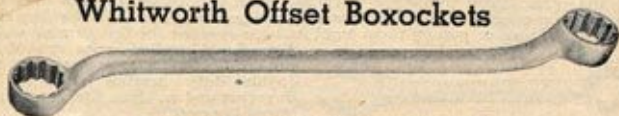
Whitworth Dwarf Boxockets

(See page 44 for complete description)



Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Head Thickness	Head Diameter	Overall Length	Price
WXS-6A9	$\frac{1}{8}$ " & $\frac{3}{16}$ "	.338" & .448"	$\frac{1}{4}$ " & $\frac{3}{16}$ "	.490" & .620"	$4\frac{13}{16}$ "	\$0.75
WXS-1011	$\frac{1}{8}$ " & $\frac{1}{4}$ "	.525" & .600"	$\frac{11}{32}$ " & $\frac{3}{8}$ "	.760" & .850"	$5\frac{1}{8}$ "	.85
WXS-1112	$\frac{1}{8}$ " & $\frac{5}{16}$ "	.600" & .710"	$\frac{3}{8}$ " & $\frac{7}{16}$ "	.850" & 1.000"	$6\frac{3}{16}$ "	1.05
WXS-1213	$\frac{1}{8}$ " & $\frac{3}{8}$ "	.710" & .820"	$\frac{7}{16}$ " & $\frac{13}{16}$ "	.960" & 1.125"	$6\frac{1}{2}$ "	1.25

Whitworth Offset Boxockets



(See page 41 for complete description)

Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Overall Length	Price
WX-910	$\frac{3}{16}$ " & $\frac{1}{4}$ "	.448" & .525"	$8\frac{1}{2}$ "	\$0.95
WX-1011	$\frac{1}{4}$ " & $\frac{5}{16}$ "	.525" & .600"	$9\frac{1}{4}$ "	1.05
WX-1112	$\frac{5}{16}$ " & $\frac{3}{8}$ "	.600" & .710"	10"	1.25
WX-1213	$\frac{3}{8}$ " & $\frac{7}{16}$ "	.710" & .820"	$10\frac{7}{8}$ "	1.25
WX-1314	$\frac{7}{16}$ " & $\frac{1}{2}$ "	.820" & .920"	$12\frac{3}{8}$ "	1.40
WX-1415	$\frac{1}{2}$ " & $\frac{9}{16}$ "	.920" & 1.010"	$13\frac{1}{8}$ "	1.70
WX-1516	$\frac{9}{16}$ " & $\frac{5}{8}$ "	1.010" & 1.100"	14"	2.25
WX-1618	$\frac{5}{8}$ " & $\frac{3}{4}$ "	1.100" & 1.300"	$14\frac{7}{8}$ "	2.65
WX-2022	$\frac{3}{4}$ " & 1"	1.480" & 1.670"	16"	4.25

Whitworth Wrench Equipment for All Industry

Whitworth Ignition Wrenches



(See page 52 for complete description)

Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Head Thickness	Head Diameter	Overall Length	Price
WC-12	7BA & 6BA	.172" & .193"	.100"	.406"	2 1/2"	\$0.45
WC-21	6BA & 7BA	.193" & .172"	.100"	.406"	2 3/4"	.45
WC-34	5BA & 4BA	.220" & .248"	.110"	.500"	2 5/8"	.45
WC-43	4BA & 5BA	.248" & .220"	.110"	.500"	2 3/4"	.45
WC-56	3BA & 2BA	.282" & .324"	.110"	.625"	3 1/4"	.45
WC-65	2BA & 3BA	.324" & .282"	.110"	.625"	3 1/4"	.45
WC-78	1BA & 0BA	.365" & .413"	.135"	.750"	3 1/2"	.45
WC-87	0BA & 1BA	.413" & .365"	.135"	.750"	3 1/2"	.45

Whitworth "Supreme" Spanners



(See page 50 for complete description)

Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Head Thickness	Head Diameter	Overall Length	Price
WS- 6A9	1/8" & 3/16"	.338" & .448"	.180"	.781" & .937"	4 1/4"	\$0.60
WS- 910	3/16" & 1/4"	.448" & .525"	.225"	1.000" & 1.187"	6 1/8"	.70
WS-1011	1/4" & 5/16"	.525" & .600"	.270"	1.187" & 1.281"	6 3/4"	.90
WS-1112	5/16" & 3/8"	.600" & .710"	.310"	1.250" & 1.500"	7 1/2"	1.00
WS-1213	3/8" & 7/16"	.710" & .820"	.360"	1.531" & 1.750"	9"	1.25
WS-1314	7/16" & 1/2"	.820" & .920"	.360"	1.531" & 1.750"	9"	1.35
WS-1415	1/2" & 9/16"	.920" & 1.010"	.400"	1.875" & 2.062"	10 1/4"	1.45
WS-1516	9/16" & 5/8"	1.010" & 1.100"	.400"	1.875" & 2.062"	10 1/4"	1.60
WS-1618	5/8" & 3/4"	1.100" & 1.300"	.450"	2.187" & 2.687"	11 1/2"	2.00
WS-1820	3/4" & 7/8"	1.300" & 1.480"	.500"	2.312" & 2.625"	15"	2.25
WS-1822	7/8" & 1"	1.300" & 1.670"	.550"	2.968" & 3.281"	15"	4.00
WS-2022	1" & 1 1/8"	1.480" & 1.670"	.550"	2.968" & 3.281"	15"	4.00

Whitworth "Blue-Point" Spanners

(See page 51 for complete description)



Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Head Thickness	Head Diameter	Overall Length	Price
W-6A9	1/8" & 3/16"	.338" & .448"	.205"	.937" & 1.062"	4 3/4"	\$0.50
W-910	3/16" & 1/4"	.448" & .525"	.225"	1.000" & 1.125"	5 3/8"	.55
W-1011	1/4" & 5/16"	.525" & .600"	.250"	1.156" & 1.281"	6 1/4"	.65
W-1112	5/16" & 3/8"	.600" & .710"	.300"	1.312" & 1.500"	6 13/16"	.80
W-1213	3/8" & 7/16"	.710" & .820"	.330"	1.375" & 1.562"	7 3/8"	.90
W-1314	7/16" & 1/2"	.820" & .920"	.380"	1.750" & 2.000"	8 13/16"	1.20
W-1415	1/2" & 9/16"	.920" & 1.010"	.500"	2.000" & 2.125"	10 13/16"	1.40

Whitworth Tappet Wrenches



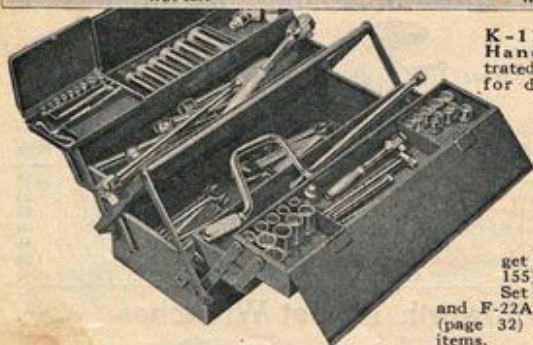
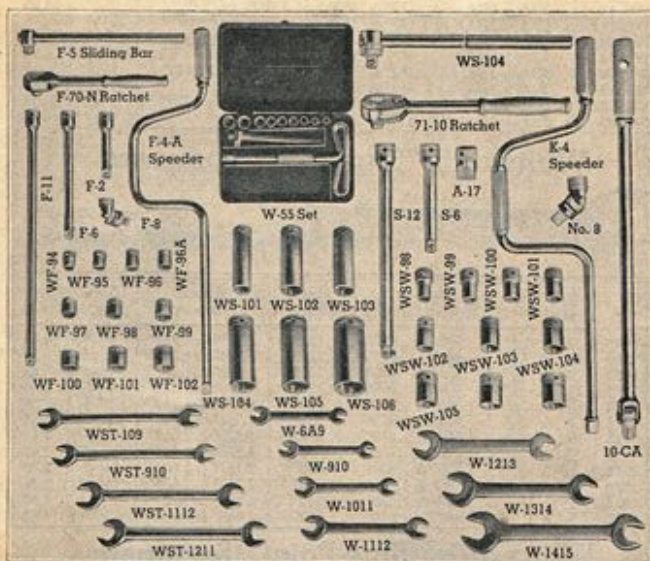
(See page 48 for complete description)

Stock No.	Whitworth Bolt Size	Nominal Wrench Opening	Head Thickness	Head Diameter	Overall Length	Price
WST-910	3/16" & 1/4"	.448" & .525"	.170"	1.031" & 1.156"	8 1/16"	\$0.85
WST-109	1/4" & 5/16"	.525" & .448"	.170"	1.156" & 1.031"	8 1/16"	.85
WST-1112	5/16" & 3/8"	.600" & .710"	.186"	1.312" & 1.406"	8 3/4"	.95
WST-1211	3/8" & 7/16"	.710" & .600"	.186"	1.406" & 1.312"	8 3/4"	.95

Whitworth Wrench Equipment for All Industry

W-555 Whitworth Progressive Nut Turning Set

A BALANCED selection of "matched units" which will handle a majority of the work for which Whitworth Standard Wrenches are required. Wherever there are nuts to be turned, Snap-on Wrenches will do a faster, safer and easier job.



K-11 Master Handikit illustrated. See page 85 for description. Each \$8.15.

W-555 Set, Contains:
W-55 Mid-
get Set (see page 155), W-85 Ferret Set (see page 156), and F-22A Screw Driver (page 32) and following items.

Master units as follows: Sockets as per table No. 3, page 150, excepting WSW-96A and WSW-107, Extra Deep Sockets as per table No. 4, page 151, sizes WS-101 to WS-106 inclusive.

Handle Equipment: S-10 Sliding Tee, 71-10 Ratchet, 10-CA Nut Spinner, S-12 Extension Bar, S-6 Extension Bar, No. 8 Universal Joint, A-17 Screw Driver, and K-4 Speeder (see pages 23 to 26.)

Tappet Wrenches: WST-910, WST-109, WST-1112, WST-1211 (page 153).
Blue-Point Spanners: W-6A9 to W-1415 inclusive (see page 153).

W-555 Whitworth Set. Tools only.....\$54.55

This set can be supplied with or without the K-11 Master Handikit illustrated and listed above.

Whitworth Wrench Equipment for All Industry

W-55 Whitworth Midget Set

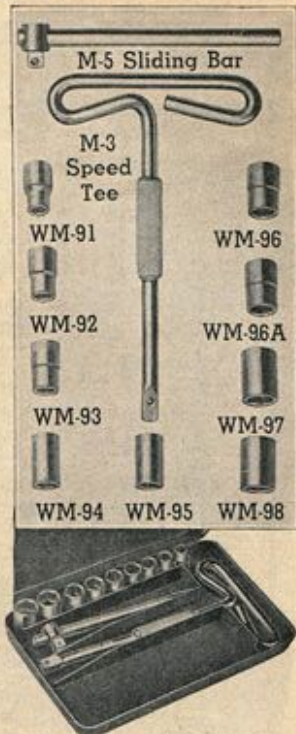
(9/32" Square Drive)

A SELECTION of small wrenches that makes for fast work where numerous little nuts have to be removed or replaced. Very small handles of improved design and single broached hexagon sockets of thin, straight wall design for getting into those tightest places. Excellent for Carburetion, Electrical, Radio, Dashboard, Meter work, etc. Set contains 11 units, including the 9 sockets in table No. 1, page 150, and two handles. Complete in metal case as illustrated.

W-55 Whitworth Midget Set..... \$4.00

W-58 Whitworth Midget Set

(9/32" Square Drive)



A COMPLETE nut turning set in Midget sizes... every possible type of wrench hook-up for any type of job. Wherever small machines are used you'll find the need for a set like this. It contains fifteen units, including the finest Midget Ratchet Wrench ever designed, Extension Bar, Sliding Tee, Speed Tee, Electrical Handle and Screw Driver attachment, also 9 sockets listed in table No. 1, page 150. Complete in metal box.

W-58 Whitworth Midget Set \$7.40
See pages 35-36 for Complete List of Midget (9/32" square drive) Handles.

Whitworth Wrench Equipment for All Industry

Whitworth Ferret Sets

($\frac{3}{8}$ " Square Drive)

W-85-A Set

LONG, slender handles and short, thin-walled sockets that squeeze into the closest places to get those hard-to-reach nuts. Set contains 10 sockets listed in table No. 2, page 150. Also the 9 handles and attachments as shown. This set can be supplied with or without the No. 80-B Metal Box illustrated.

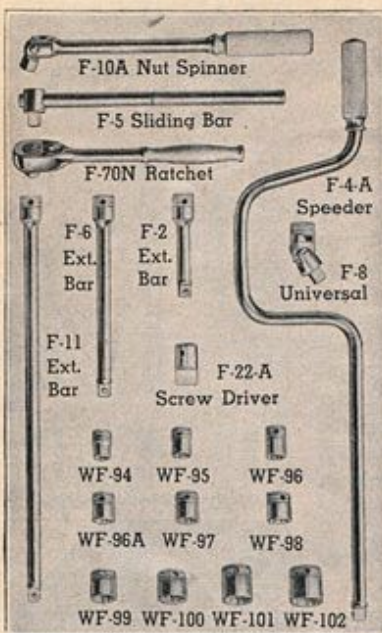
W-85-A Whitworth Ferret Set. Tools only.....\$15.30

W-85 Set

Contains the same selection of tools as illustrated with the exception of the F-10-A Nut Spinner Handle and the F-22-A Screw Driver Socket. This set can be supplied with or without the No. 80-B Metal Box illustrated.

W-85 Whitworth Ferret Set. Tools only.....\$13.00
80-B Metal Box. Each 1.30

See pages 31-32 for Complete List of Ferret ($\frac{3}{8}$ " square drive) Handles.



Whitworth Nut Spinner Sets Master Series



($\frac{1}{2}$ " Square Drive)

W-25-CA Set

Contains all sockets listed in table No. 3, page 150, except WSW-96A and WSW-107 and the 10-CA Nut Spinner Handle listed on page 24.
Tools only.....\$9.55

W-25-DA Set

Contains all sockets listed in table No. 3, page 150, except WSW-96A and WSW-107 and the 10-DA Nut Spinner Handle listed on page 24.
Tools only.....\$9.50

No. 4-B Metal Box for above sets as illustrated......75
See pages 23 to 26 for complete list of Master ($\frac{1}{2}$ " square drive) Handles.

Whitworth Wrench Equipment for All Industry

Snap-on *RED-CAP* Quality Tool Chests and Roll-Cabs

MODERN in every way, this new Red-Cap line positively stands beyond all comparison with any other metal box or bench equipment. It is finished in attractive deep crimson with black and chrome plated trim.

**K-260
Combination
Complete**

**K-60
Chest
Only**

Height of
Combination
Chest and
Roll-Cab
46 $\frac{1}{2}$ "



**K-200 Roll-
Cab Only**

K-60 Red-Cap Chest

The Turret Dome is of Welded Construction, very strong and of unusually heavy gauge steel. It is fitted with full length piano type hinge and two Yale-type locks. Side handles are chrome plated and are big enough for a "man's" size hand.

Size overall: 16 $\frac{1}{2}$ " high, 30 $\frac{3}{4}$ " long, 15 $\frac{1}{4}$ " wide.

Top Compartments: 1. 20 $\frac{1}{2}$ "x9"x2 $\frac{1}{2}$ ".
2 & 3. 9"x4 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". 4. 30 $\frac{1}{4}$ "x3 $\frac{3}{4}$ "x2 $\frac{1}{2}$ ".

Largest is designed to hold the KT-1A Tote Tray.

Drawers—Center: 1. 20 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "x1 $\frac{1}{4}$ ".
2 & 3. 20 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "x1 $\frac{1}{4}$ ". 4. 20 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "x3 $\frac{3}{4}$ ".

Small Side: 1. 3 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "x1 $\frac{1}{4}$ ".
2 & 3. 3 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "x2". 4. 3 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "x3 $\frac{3}{4}$ ".

Drawer Handles made of black bakelite and chromium. Drawer Knobs chromium plated. Shipping Weight: 163#—Net Weight: 130#.

K-60 Superchest—F.O.B. Chicago.....\$52.50

K-200 Roll-Cab

Fitted with 3" Silent Swivel Rubber Casters, this cabinet rolls easily without danger of tipping. Piano type hinges run the full length of the doors which are furnished with heavy chrome plated handles and Yale-type lock. Drawers pull easily on special skid channels. Height: 30". Length: 32". Width: 16".

Drawers: Top—12"x15"x2". Middle—22 $\frac{5}{8}$ "x15"x4". Bottom—22 $\frac{5}{8}$ "x15"x6".
Bottom Compartment: 32"x15 $\frac{1}{2}$ "x9 $\frac{1}{2}$ ".

Shipping Weight: 138 lbs. Net weight: 115 lbs.

K-200 Roll Cab—F.O.B. Chicago.....\$37.50

K-260 Combination—F.O.B. Chicago..... 90.00

Built for the Man Who Wants the Best

KB-336A Red-Cap Combination

CONSISTING OF

K-33A Chest and PRB-6A Cab.

THE K-33A Chest shown in this combination is exceptionally sturdy and well built. Turret Dome and Drop Front have piano hinges and fasten with Yale-type lock. Drawers are divided into three compartments. An excellent chest at a reasonable cost.

Size Overall: $23\frac{3}{4}" \times 12" \times 10\frac{3}{4}"$

Large Top Compartment: (Accommodates KT-1A Tote Tray)
 $23\frac{3}{4}" \times 8\frac{1}{4}" \times 3\frac{1}{4}"$

Small Top Compartment:
 $23\frac{3}{4}" \times 2\frac{3}{4}" \times 3\frac{1}{4}"$

Top Drawer: $21\frac{1}{2}" \times 11" \times 1\frac{3}{4}"$

Bottom Drawer: $21\frac{1}{2}" \times 11" \times 3\frac{1}{4}"$

Weight: 41 lbs.

K-33A Chest: Price varies according to Branch Zone—
(Zone 1—\$13.95), (Zone 2—\$14.15), (Zone 3—\$14.25),
(Zone 4—\$14.65), (Zone 5—\$15.25).



PRB-6A Roll-Cab

Built to hold both chests shown on this page. Plenty of room to hold your larger tools and equipment. 3" swivel rubber casters . . . flared legs for safety . . . Yale-type lock for protection . . . Deep Crimson and chrome finish for appearance. It's "Deluxe" from start to finish.

Height: 25". Length: $26\frac{3}{4}"$. Width: $12\frac{3}{4}"$.

Depth of Cabinet: $17\frac{1}{2}"$. Floor Space: $32\frac{1}{2}" \times 19\frac{1}{2}"$. Weight: 48 lbs.

PRB-6A Roll-Cab: Price varies according to branch zone: (Zone 1—\$14.25), (Zone 2—\$14.45), (Zone 3—\$14.55), (Zone 4—\$14.95), (Zone 5—\$15.50).

KT-1A Tote Tray

A convenient tray for holding those tools actually in use. Has three socket sections and fits the top compartments in all Red-Cap Chests. Each . . . \$1.45

K-5A Red-Cap Tool Chest

BIG enough to hold the complete small tool equipment of the average mechanic . . . top compartment accommodates the KT-1A Tote Tray.

Lid fitted with piano hinge. Heavy gauge, spot weld construction. Much larger than the K-33A shown above.

Size overall: $26" \times 12" \times 14\frac{1}{4}"$



Top Compartments:

1. $8\frac{3}{4}" \times 5\frac{1}{4}" \times 3\frac{1}{4}"$
2. $25\frac{3}{4}" \times 3\frac{1}{4}" \times 3\frac{1}{4}"$
3. $20\frac{1}{2}" \times 8\frac{1}{4}" \times 3\frac{1}{4}"$

Small Drawers:

1. $10\frac{1}{4}" \times 3\frac{3}{4}" \times 1"$
2. $10\frac{1}{4}" \times 3\frac{3}{4}" \times 1\frac{1}{4}"$
3. $10\frac{1}{4}" \times 3\frac{3}{4}" \times 3\frac{1}{4}"$

Large Drawers:

1. $20\frac{3}{4}" \times 10\frac{1}{4}" \times 1"$
2. $20\frac{3}{4}" \times 10\frac{1}{4}" \times 1\frac{1}{4}"$
3. $20\frac{3}{4}" \times 10\frac{1}{4}" \times 3\frac{1}{4}"$

Shipping Weight: 70 lbs.

K-5A Chest: Price varies according to branch zone: (Zone 1—\$19.90), (Zone 2—\$20.15), (Zone 3—\$20.35), (Zone 4—\$20.95), (Zone 5—\$21.85).

See Inside Back Cover for Branch Zones

Snap-on Grey-Cab

HANDY . . . practical . . . different. Built to be used as a small roller tool bench with flat working top, or as a roller base for the K-5 Tool Chest or other boxes shown on pages 84 to 87. Can be purchased complete as shown or as an open bench to which the side panels and drawers can later be added. Finished in Battleship Grey.



DPRB-5
Enclosed Tool Cab
complete with drawers

Height Overall: 23 $\frac{3}{4}$ ". Length: 26". Width: 12". Depth Inside Open Cabinet: 16 $\frac{3}{4}$ ".
Top Drawer: 22 $\frac{3}{4}$ "x11 $\frac{1}{8}$ "x2 $\frac{3}{4}$ ".

Bottom Drawer: 22 $\frac{3}{4}$ "x11 $\frac{1}{8}$ "x3 $\frac{3}{4}$ ".
Bottom Compartment: 26"x12"x8 $\frac{1}{4}$ ".
Wheel Base: 17 $\frac{1}{2}$ "x31 $\frac{3}{4}$ ".

Offset legs as illustrated can be supplied to owners of the RK-5 Roller Stand . . . they provide a much steadier base.

Prices vary according to branch zone:

	DPRB-5 Complete As Shown	RBK-5 Stand Only	DR-5 Set of Drawers	RKP-5 Set of Panels
Zone 1	\$16.25	\$6.90	\$4.80	\$4.55
Zone 2	16.50	7.00	4.85	4.65
Zone 3	16.70	7.10	4.95	4.65
Zone 4	17.25	7.35	5.05	4.85
Zone 5	18.20	7.80	5.25	5.15
RBK-5-4 Set of 4 legs for RK-5 Roller Stand				\$3.20

K-70-H Metal Tray for K-70 Bench

A useful addition for every owner of the K-70 Roller Bench (see page 89). Hangs on the side of the bench for holding a supply of cotter pins, nuts, small bolts, washers, etc., convenient to your work. 18" long, 2 $\frac{3}{4}$ " wide, 1" deep in front. Six compartments 3"x2 $\frac{1}{4}$ ".
K-70-H Each \$0.90



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See Inside Back Cover for Branch Zones

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Let Snap-on Prove the Value of a Regular Tool Service